Exhibit 610

PLAINTIFFS' OMNIBUS OPPOSITION TO DEFENDANTS' MOTIONS FOR SUMMARY JUDGMENT

Case No.: 4:22-md-03047-YGR MDL No. 3047

In Re: Social Media Adolescent Addiction/Personal Injury Products Liability Litigation

Second Amended Expert Report of
Douglas L. Leslie, Ph.D.
for Charleston County School District

September 4, 2025

CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER

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I. EXECUTIVE SUMMARY OF OPINIONS

- 1. **Opinion 1**: There are significant costs to Charleston County School District associated with hiring the staff required to fulfill Dr. Hoover's strategic plan. Costs to Charleston County School District in present value dollars are between \$1.0 and \$1.4 billion over a fifteen year period, beginning in 2026. Adjusting for inflation, those costs are between \$1.3 and \$1.8 billion dollars.
- 2. **Opinion 2**: Significant costs exist for Charleston County School District in applying the recommendations made in Dr. Hoover's strategic plan. Costs to Charleston County School District in present value dollars are between \$18.1 and \$22.2 million over a fifteen year period, beginning in 2026. Adjusting for inflation, those costs are between \$22.4 and \$27.6 million dollars.
- 3. **Opinion 3**: Taken together, the total costs of the strategic plan as proposed by Dr. Hoover for Charleston County School District, which includes the cumulative cost of new staff, and cumulative training and development costs identified above, are between \$1.0 and \$1.4 billion in present value dollars. These costs are between \$1.3 and \$1.8 billion when adjusted for inflation.

II. QUALIFICATIONS

- 4. My name is Douglas Leslie. I am a Professor at the Pennsylvania State University. I have appointments in the Department of Public Health Sciences and the Department of Psychiatry & Behavioral Health at the Penn State College of Medicine. I have been at Penn State for over 15 years. Before joining Penn State, I held faculty appointments at the Medical University of South Carolina and Yale University. I received my Ph.D. in Economics from Yale University in 1998 and my B.S. from the University of Virginia in 1990.
- 5. I specialize in Health Economics and Health Services Research. I have published more than 225 articles and coauthored two book chapters. I sit on the Editorial Boards of the *Journal of the American Geriatrics Society*, the *Journal of Mental Health Policy and Economics*, and *Medical Care Research and Review*.

- 6. I have received several awards for my research. In 2001 and 2002, I was awarded the MarketScan® Investigator Award for my research using a large, national private health insurance claims database called MarketScan®. In 2005, I was awarded the Excellence in Mental Health Policy and Economics Research Award by the International Center of Mental Health Policy and Economics, which also awarded me the Research Mentorship Award in 2006. In 2008, I was named the Scholar of the Year at the Medical University of South Carolina College of Health Professions. In 2015, the Association of American Medical Colleges highlighted my research in their Health Equity Snapshot. In 2020 and 2025, I was awarded Career Citation Milestone Awards by the Penn State College of Medicine.
- 7. In addition to my research, I have a record of service to the profession. I served as a Scientific Committee member of the American Society of Health Economists from 2005 to 2007. In 2008, I was the Academic Co-Chair of the 14th National Institute of Mental Health Biennial Research Conference on the Economics of Mental Health. Finally, I was a member of an Institute of Medicine (now called the National Academy of Medicine) committee tasked with assessing ongoing efforts in the treatment of post-traumatic stress disorder in the Departments of Defense and Veterans Affairs from 2011-2014.
- 8. My work focuses primarily on the effects of various policies on access to healthcare services, quality of care, and costs. Often, my work requires that I determine the cost of healthcare interventions. 1 This involves determining the resources required to deliver the intervention (e.g., personnel and supplies), determining the cost associated with each resource, and then summing across all resources to compute the cost of delivering the intervention.
- 9. For example, in a study published in the American Journal of Psychiatry in 2011,² I determined the cost of a medical care management intervention for community mental health settings. The intervention involved embedding registered nurses in an urban community mental

B. Druss, et al., "Budget Impact and Sustainability of Medical Care Management for Persons with Serious Mental Illnesses," American Journal of Psychiatry, 168(11), 2011, pp. 1171-78; A. Rollins, et al., "Comparing the Costs and Acceptability of Three Fidelity Assessment Methods for Assertive Community Treatment," Administration and Policy in Mental Health, 44(5), 2017, pp. 810-16; D. Leslie, et al., "Comparative Salary-Related Costs of a Brief App-Directed Delirium Identification Protocol by Hospitalists, Nurses, and Nursing Assistants," Journal of the *American Geriatrics Society*, 70(8), 2022, pp. 2371-78.

² Druss, et al., op. cit.

health center (CMHC) who would provide patient education and activation and logistical support in accessing ongoing comprehensive primary care services for individuals with serious and persistent mental illness receiving care at the CMHC. To determine the costs of the intervention, I obtained nurse salary information from the Bureau of Labor Statistics and determined training costs based on daily salaries for senior staff providing training. Equipment costs were divided into one-time setup costs (for durable equipment) and recurring expenses (for things like bandages and gloves); prices for these supplies were drawn from the national medical supply company where the products were purchased. Combining across personnel salaries, fringe benefits, supplies and equipment, and overhead, I computed that the intervention cost \$973 per patient for the first year and \$915 per patient for the second year.

- 10. In another study published in the *Journal of the American Geriatrics Society* in 2022,³ I determined the cost of a brief app-based delirium identification protocol. Time spent by physicians, nurses, and certified nursing assistants to complete the screening protocol was multiplied by their corresponding hourly wage to determine the cost of implementing the protocol in inpatient hospital settings. I calculated the cost of implementing a nurse-based screening protocol in a medium-sized (300-bed) hospital would be \$63,015 plus \$4,356 for initial and annual training.
- 11. My curriculum vitae, which provides additional details about my career and publications, is included as Attachment A. I have been deposed six times in the last four years.⁴ My billing rate in this matter is \$650 per hour. I receive additional compensation based on my staff billings in support of my work on this matter. My compensation is not dependent on the outcome of these proceedings. My analysis is ongoing, and I reserve the right to supplement or modify my work

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³ Leslie, et al., op. cit.

⁴ Deposition, June 2021, *State of Alabama v. Endo Health Solutions, Inc.*, Civil Action Number CV-2019-901174, Alabama Circuit Court in Montgomery County; Deposition, September 2021, *County of Dallas v. Purdue Pharma, LP*, MDL Pretrial Cause No. 2018-77098, 116th Judicial District in Dallas, Texas, *In re: Texas Opioid Litigation*, Master File No. 2018-63587, 152nd Judicial District in Harris County, Texas; Deposition, November 2021, *County of Bexar v. Purdue Pharma, et al.*, MDL Pretrial Cause No. 2018-77066, In the District Court of the 224th Judicial District, Bexar County, Texas, *In re: Texas Opioid Litigation*, Master File No. No. 2018-63587, 152nd Judicial District in Harris County, Texas; Deposition, November 2022, *State of Georgia v. Teva Pharms. Ind. Ltd.*, Case No. 19-A-00060-2, In the Superior Court of Gwinnett County Business Care Division; Deposition, December 2022, *State of Nevada vs. McKesson Corporation, et al.*, Case No. A-19-796755-B, 8th Judicial District Court in Clark County, Nevada; Deposition, April 26, 2024, *Mayor & City Counsel of Baltimore vs. Purdue Pharma, et al.*, In the Circuit Court of Maryland, Baltimore City.

based on new or additional data, materials, or testimony that may become available to me, including, but not limited to, other expert witness reports that have not been produced prior to the completion of my assignment. In addition to my experience, qualifications, knowledge of generally accepted economic principles, and assessment of the relevant literature and documents, the materials that I relied upon for this Report are listed in Attachment B and included in the backup materials.

III. ASSIGNMENT AND SUMMARY OF OPINIONS

12. I have reviewed the expert report of Dr. Sharon Hoover, a Professor of Child and Adolescent Psychiatry and licensed clinical psychologist who has conducted a social media school district impact analysis and recommends a strategic plan for Charleston County School District to address the damaging effects of social media use on student well-being, learning, the school environment, and the school district through the development of comprehensive school mental health systems to address these harms. I have been tasked with calculating the present value of future costs associated with implementation of the strategic plan for Charleston County School District as recommended by Dr. Hoover.⁵

Opinion 1: There are significant costs to the school district associated with hiring the staff required to fulfill Dr. Hoover's strategic plan.

Opinion 2: Significant costs exist for the school district in applying the recommendations made in Dr. Hoover's strategic plan.

IV. METHODOLOGY FOR CALCULATING STRATEGIC PLAN COSTS

- 13. The strategic plan costs consist of two separate cost calculations. First, new staff must be hired to complete essential functions related to the strategic plan. Second, district staff must be trained according to recommendations made in the strategic plan.
- 14. To calculate the costs of hiring new staff outlined in the strategic plan, I identify comparable salaries for the district, and extend these costs over fifteen years, beginning in the

⁵ See Expert Report of Dr. Sharon Hoover, May 16, 2025; see also Expert Report of Dr. Sharon Hoover, May 18,

FY2026 school year. This period represents the time required for students in the kindergarten cohort to age out of public schooling.

- 15. To calculate the training costs associated with the strategic plan, I consider the average wages for the roles identified in the plan, along with the training hours involved in each recommendation. I use these inputs to calculate the time value of delivering each recommended training to district staff over the fifteen-year period.
- 16. My analysis uses comparable salary data from two sources. First, I use U.S. Department of Labor Bureau of Labor Statistics (BLS) salary data for the Metropolitan or Non-Metropolitan Statistical Area (MSA) the district falls within.⁶ If comparable salaries are not available at the MSA level, I instead use BLS data compiled at the state level.⁷ Second, I use budgets provided by the school district to determine the average salary of a 1 FTE (full-time equivalency) position paid by the school district. If the budget data provided does not allow for this calculation, I instead take a weighted average cost per 1 FTE paid by the district for similar functions.
- 17. After using these data sets to identify comparable positions and salaries, I then apply a multiplier that adds the fringe benefits provided by the district. These data are also used to calculate the average hourly wages paid to administrators, teachers, support staff, and all other staff at the school district.⁸ I use the wage data for newly hired staff fulfilling administrator and mental health support roles as a proxy for wages paid to school district administrators and support staff. I use the wage data for full-time primary and secondary school teachers to measure the wages paid by the school district to teachers. I consider the wages paid to transportation, facilities, clerical and custodial staff as a proxy for wages paid to all other staff in the district.⁹

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⁶ U.S. Bureau of Labor Statistics, "May 2024 Metropolitan and Nonmetropolitan Area Occupational Employment and Wage Estimates," (https://www.bls.gov/oes/current/oessrcma.htm).

⁷ U.S. Bureau of Labor Statistics, "Occupational Employment and Wage Statistics (OEWS) Tables," May 2024 (https://www.bls.gov/oes/tables.htm).

⁸ To calculate hourly wages in my analysis I treat administrator and other staff as full-time year-round employees (a 2,080-hour working year), and teachers and support staff as full time, 10-month employees (a 1,733-hour working year).

⁹ For more on these calculations, see Attachment E of this Report.

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18. The overarching strategic plan and recommendations made within the plan use school district data provided to me in this district's plaintiff fact sheet, 10 as well as Common Core survey data compiled by the National Center for Education Statistics¹¹ and data provided by the school districts in the SHAPE questionnaire. The figures I rely upon for total numbers of schools, teachers, and students in this district use data for the 2023/2024 school year. These are the latest figures available to me. I conservatively consider these data to remain constant through the 2024/2025 school year, and into the beginning of the 2025/2026 school year. I calculate costs for 2026 through 2040, the full duration of the fifteen-year strategic plan.

V. COSTS OF STRATEGIC PLAN

- Calculated Costs of New Staff Required for Charleston County School Α. District's Strategic Plan
- The calculated costs of new positions required by the strategic plan, using both wage data 19. from the U.S. Bureau of Labor Statistics (BLS Method) and school district budgets (Budget Method), are found below in Table 1.¹²

¹⁰ Amended Plaintiff Fact Sheet, in this matter, May 10, 2025, which provides district counts of schools, students, teachers, and mental health support staff.

¹¹ National Center for Education Statistics, "Search for Public School Districts: District Directory Information (2023-2024 School Year)," May 2025 (https://nces.ed.gov/ccd/districtsearch/index.asp).

¹² For underlying calculations, see Attachment C of this Report.

Table 1. Cumulative Cost of New Positions, 2026-2040: Charleston County School District

	BLS Method	Budget Method
Cost of Strategic Plan - Present Value	\$1,001,789,016	\$1,395,011,492
Cost of Strategic Plan - Adjusted for Inflation	\$1,305,046,323	\$1,817,303,432

B. Calculated Costs of Dr. Hoover's Recommendations for Charleston County School District's Strategic Plan

20. The calculated costs of recommendations made in the strategic plan using the BLS Method and Budget Method are found below in Table 2.¹³

Table 2. Cumulative Training and Development Costs, 2026-2040: Charleston County School District

	BLS Method	Budget Method
Cost of Strategic Plan - Present Value	\$18,075,869	\$22,214,059
Cost of Strategic Plan - Adjusted for Inflation	\$22,432,197	\$27,574,951

VI. CONCLUSION

21. Taken together, the total costs of the strategic plan as proposed by Dr. Hoover for Charleston County School District, which includes the cumulative cost of new staff, and cumulative training and development costs identified above, are between \$1.0 and \$1.4 billion in present value dollars. These costs are between \$1.3 and \$1.8 billion when adjusted for inflation.

¹³ For underlying calculations, see Attachment D and Attachment E of this Report.

The undersigned hereby certifies their understanding that they owe a primary and overriding duty of candor and professional integrity to help the Court on matters within their expertise and in all submissions to, or testimony before, the Court. The undersigned further certifies that their report and opinions are not being presented for any improper purpose, such as to harass, cause unnecessary delay, or needlessly increase the cost of litigation.

Douglas L. Leslie, Ph.D.

September 4, 2025

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ATTACHMENT A

Curriculum Vitae

NAME: Douglas L. Leslie, Ph.D.

BORN: September 7, 1968, Cleveland, Ohio

EDUCATION: B.A., Economics, University of Virginia, 1990

M.A., Economics, Yale University, 1992 M.Phil., Economics, Yale University, 1993 Ph.D., Economics, Yale University, 1998

CAREER: July 1997 – July 2007	Mental Health Economist, Northeast Program Evaluation Center, VA Medical Center, West Haven, CT.
November 1997 – June 1999	Associate Research Scientist, Department of Psychiatry, Yale School of Medicine
July 1999 – June 2006	Assistant Professor, Department of Psychiatry, Yale School of Medicine
July 2000 – June 2006	Assistant Professor, Epidemiology and Public Health, Yale School of Medicine
July 2006 – June 2007	Associate Professor, Department of Psychiatry, Yale School of Medicine
July 2006 – June 2007	Associate Professor, Epidemiology and Public Health, Yale School of Medicine
July 2007 – June 2009	Associate Professor, Health Administration and Policy, Medical University of South Carolina
April 2008 – June 2009	Associate Director, Center for Health Economics and Policy Studies, Medical University of South Carolina
July 2009 – present	Professor, Public Health Sciences and Psychiatry, Penn State College of Medicine
January 2011 – September 2022	Founding Director, Center for Applied Studies in Health Economics, Department of Public Health Sciences, Penn State College of Medicine
January 2012 – September 2014	Director, Master of Science in Public Health Sciences, Penn State College of Medicine
July 2012 – June 2014	Co-Director, CTSI TL1 Pre-doctoral Training Program, Penn State University
September 2014 – September 2022	Chief, Division of Health Services and Behavioral Research, Department of Public Health Sciences, Penn State University

September 2014 – September 2022 Vice Chair for Education, Department of Public Health

Sciences, Penn State University

October 2022 – present Chair, Department of Public Health Sciences, Penn State

University

PROFESSIONAL HONORS:

1990	Phi Beta Kappa
1990	Distinguished Major in Economics - High Distinction
1990 - 1994	Yale University Fellowship
Fall 1995	Yale University Dissertation Fellowship
2001	MarketScan Investigator Award, The MEDSTAT Group
2002	MarketScan Investigator Award, The MEDSTAT Group
2005	Excellence in Mental Health Policy and Economics Research Award, ICMPE
2005 - 2007	American Society of Health Economists, Scientific Committee member
2006 - 2007	Research Mentorship Award, Interdisciplinary Postgraduate Training in Mental Health Policy and Economics Research, International Center for Mental Health Policy and Economics
2008	Academic Co-Chair, 14th NIMH Biennial Research Conference on the Economics of Mental Health
2008	Medical University of South Carolina Scholar of the Year, College of Health Professions
2010	Program Committee member, 15 th Biennial Research Conference on the Economics of Mental Health
Feb 2011 – June 2014	Member, IOM Committee on the Assessment of Ongoing Efforts in the Treatment of PTSD
2015	Health Equity Research Snapshot, Association of American Medical Colleges
2020	Career Citation Milestone Award, Penn State College of Medicine
2025	Career Citation Milestone Award, Penn State College of Medicine

OTHER PROFESSIONAL ACTIVITIES:

Editorial Board: Journal of the American Geriatrics Society

Journal of Mental Health Policy & Economics

Medical Care Research and Review

Professional organizations:

AcademyHealth

American Public Health Association

American Society of Health Economists (Charter Member)

International Health Economics Association

International Society for Autism Research

International Society for Pharmacoeconomics and Outcomes Research

Journal Referee: Administration and Policy in Mental Health and Mental Health Services Research, American Journal of Managed Care, Archives of General Psychiatry, Archives of Pediatrics & Adolescent Medicine, Autism: International Journal of Research and Practice, Bipolar Disorders, Clinical Schizophrenia & Related Psychoses, CNS Spectrums, Health Affairs, Journal of the American Academy of Child and Adolescent Psychiatry, Journal of the American Geriatrics Society, JAMA, JAMA Psychiatry, Journal of Autism and Developmental Disorders, Journal of Biopharmaceutical Statistics, Journal of Child and Adolescent Psychopharmacology, Journal of Clinical Psychiatry, Journal of General Internal Medicine, Journal of Gerontology, Journal of Mental Health Policy and Economics, Journal of Rehabilitation Research and Development, Medical Care, Medical Care Research and Review, Mental Health Services Research, Pain, PharmacoEconomics, Psychiatry Research, Psychiatric Services, Scandinavian Journal of Public Health, Schizophrenia Bulletin, Social Science & Medicine

Grant Review Committees:

NIH Child and Family Mental Health Services Research ZMH1 CRB-M(09), June 17, 2004

NIH Special Emphasis Panel ZMH1 BRB-N(06), January 10, 2005

NIH Special Emphasis Panel ZMH1 ERB-I(07), March 14, 2005

NIH Special Emphasis Panel ZMH1 CNF-A(02), July 15, 2005

NIH Special Emphasis Panel ZMH1 ERB-I(05), March 21, 2006

NIH Special Emphasis Panel ZMH1 ERB-B(05), June 19, 2006

NIH Mental Health Services Research in Specialty Settings (SRSP), October 18, 2006

NIMH SRSP, Standing Member, 2007 - 2011

Autism Speaks Trailblazer grant review committee, February 17, 2011

PCORI grant review committee, November, 2012

Autism Speaks Early Access to Care grant review committee, July 10, 2013

Autism Speaks Weatherstone Pre-Doctoral Fellowship grant review committee, February 6-7, 2014

NIMH Mental Health Services Review Committee (SERV), Ad Hoc Member, October 2014

NIMH Mental Health Services Review Committee (SERV), Ad Hoc Member, October 2015

NIDA Special Emphasis Panel ZDA1 HXO-H(08), June 11, 2019

NIDA Special Emphasis Panel ZDA1 HXO-H(09), June 12, 2019

NIMH Special Emphasis Panel ZMH1 ERB-K06, July 15, 2020

CSR Community Influences on Health Behavior, Ad Hoc Mail Reviewer, February 2022

SERVICE TO THE UNIVERSITY:

CHP Curriculum Committee, MUSC
CHP Promotion and Tenure Committee, MUSC
Program Director, Master in Research Administration, MUSC
PHS Research Computing Advisory Committee, PSU
PHS Master of Science Program Committee, PSU
PHS Master of Science Admission Committee, PSU
PHS Internal Self Study Task Force, PSU

2012 - 2014	College of Medicine Promotion and Tenure Committee, PSU
2013 - 2014	PHS Procedure Manual Committee, PSU
2014 - 2022	PHS Promotion and Tenure Committee, PSU
2015 - 2018	Chair, COM Research Informatics Advisory Committee, PSU
2015 - 2018	Member, COM IT Governance Council, PSU
2017 - 2018	Member, Law and Medicine Faculty Search Committee
2018 - 2019	Chair, PHS Promotion and Tenure Committee, PSU
2020	COM Strategic Planning Project, Research Task Force, PSU

GRANTS HISTORY:

Current Grants:

- NIAAA R01AA023267; "Alcohol and pregnancy: benefits and harms of state-level policies"; PI: Sarah Roberts; Role: Co-Investigator; 5% effort; Grant period: 3/2021 2/2026
- PA Options for Wellness; "Medical marijuana research program"; PI: Kent Vrana; Role: Co-Investigator; 5% effort; Grant period: 7/2021 7/2025.
- NIMHD R01MD017495; "Structural racism and discrimination in emergency department transfers: Unintended consequences of the Emergency Medical Treatment and Labor Act (EMTALA)"; PI: Charlene Hsuan; Role: Co-Investigator; 5% effort; Grant period: 5/2022 12/2026.
- AHRQ R01HS028651; "COVID-19, health systems and vulnerable populations: Policies affecting maternal opioid use during pregnancy"; MPI: Douglas Leslie and Cynthia Chuang; 15% effort; Grant period: 9/30/22 9/2/25.
- AHRQ R01HS029003; "The interplay of behavioral therapies, pharmacological treatments and psychiatric adverse events among youth with autism spectrum disorders"; PI: Guodong Liu; Role: Co-Investigator; 9% effort; Grant period: 4/2023 3/2026.
- NIMHD R01HD108337; "State-level factors and maternal and child health outcomes"; PI: Sarah Roberts; Role: Co-Investigator; 2.5% effort; Grant period: 9/2022 6/2027.
- PA Breast Cancer Coalition; "Effects of dense breast legislation on breast cancer care"; PI: Chan Shen; Role: Co-Investigator; 3% effort; Grant period: 1/2025 12/2025.

Expired Grants:

- NIDA R01DA047396; "Opioid Use Disorders in Adolescents: Predictors of Treatment and Outcomes"; PI: Douglas Leslie; 25% effort; Grant period: 2/15/19 12/31/23.
- AHRQ R01HS027166; "Impact of State and Federal Contraceptive Coverage Policies on Contraceptive Use, Costs, and Pregnancy Outcomes"; PI: Cynthia Chuang; 10% effort; Grant period: 1/9/20 6/30/24.

- NIDA R01 DA045800; "Quality of Medication Treatment for Opioid Use Disorder in Medicaid-Enrollees: The Effects of State Policies and Initiatives"; PI: Brad Stein; Role: Co-Investigator; 5% effort; Grant period: 8/16/18 – 10/31/23.
- NIDA UG1 DA049436; "NIDA Clinical Trials Network: Appalachian Node"; PI: Jane Liebschutz; Role: Co-Investigator; 5% effort; Grant period: 6/15/19 2/29/24.
- AHRQ R01HS026917; "The effects of state policies on opioid use disorders in pregnant women: prevalence, treatment and outcomes"; PI: Douglas Leslie; 20% effort; Grant period: 9/1/19 6/30/23.
- NIA R01AG054425; "Reducing Disability via a Family-Centered Intervention for Acutely Ill Persons with Alzheimer's Disease and Related Dementias"; PI: Marie Boltz; Role: Co-Investigator; 5% effort; Grant period: 5/1/17 4/30/23.
- DHHS/SAMHSA H79 TI081432; "Expanding Medication Assisted Treatment in Central Pennsylvania to Address Opioid Use Disorder"; PI: Jennifer Kraschnewski; Role: Co-Investigator; 7.5% effort; Grant period: 9/30/18 9/29/22.
- NIA R01AG030618; "READI: Researching Efficient Approaches to Delirium Identification"; PI: Donna Fick; Role: Co-Investigator; 2.5% effort; Grant period: 4/15/16 3/31/23.
- NIDA UG3 DA050325; "Use of a GLP-1 Agonist to Treat Opioid Use Disorder in Rats and Man"; PI: Sue Grigson/Scott Bunce; Role: Co-Investigator; No effort until Year 2; Grant period: 9/30/19 8/31/22.
- NCCIH R33 AT010118; "Comprehensive CBT via reSET for a Hub and Spoke MAT System of Care"; PI: Edward Nunes/Sarah Kawasaki; Role: Co-Investigator; 5% effort; Grant period: 9/20/19 9/19/22.
- NIMH R01MH108558; "The Effects of Medicaid Waivers on Autism Services Use and Expenditures"; PI: Douglas Leslie; 15% effort; Grant period: 8/1/16 5/31/21.
- Janssen Scientific Affairs; "Guideline Based Electronic Medical Record and Clinical Support Will Improve Shared Decision Making for Anticoagulation Therapy in Atrial Fibrillation Patients"; PI: Gerald Naccarelli; Role: Co-Investigator; 5% effort; Grant period: 11/4/16 10/31/20.
- PA Department of Health; "Pennsylvania Coordinated Medication Assisted Treatment (PacMAT) Program"; PI: Sarah Kawasaki; Role: Co-Investigator; 20% effort; Grant period: 10/1/17 4/30/18.
- UCSF/Society of Family Planning; "Cost and Complications of Abortion in Ambulatory Surgery Centers vs. Offices/Clinics"; PI: Douglas Leslie; 10% effort; Grant period: 10/1/16 2/28/18.
- NIMH R01-MH097298; "The Effects of State and Federal Insurance Policies on Quality of Care for Autism"; PI: Douglas Leslie; 25% effort; Grant period: 9/20/12 11/30/15.

- NIMH R01-MH096711; "Do Access Barriers to Autism Care Persist Despite Autism Insurance Mandate?" PI: Wang; Role: Co-Investigator; 10% effort; Grant period: 9/12/12 7/31/15.
- NIDA R01-DA032881; "Opioid Agonist Treatment Expansion in Medicaid: The Role of Buprenorphine": PI: Stein; Role: Co-Investigator; 10% effort; Grant period: 7/1/12 6/30/15.
- NIMH R01-MH091453; "Effectiveness and Cost Effectiveness of Peer Mentors in Reducing Hospital Use"; PI: Davidson; Role: Co-Investigator; 5% effort; Grant period: 9/23/10 6/30/15.
- NINR R01-NR012242; "RESERVE for Delirium Superimposed on Dementia"; PI: Kolanowski; Role: Co-Investigator; 5% effort; Grant period: 9/1/10 6/30/15.
- Alkermes; "The Effectiveness of XR-NTX for Opioid Dependence in a Large Multi-State Treatment Network"; Role: Co-PI; Grant period: 3/1/12 12/31/14.
- Bristol-Myers Squibb/Pfizer; "Treatment Patterns and Concomitant Medication Use among NVAF Patients Following Introduction of Novel Oral Anticoagulants"; Role: PI; Grant period: 9/1/13 8/31/14.
- VA HSR&D; "A Comparison of Fidelity Assessment Methods"; PI: Rollins; Role: Co-Investigator; 5% effort; Grant period: 10/1/10 9/30/13.
- VA HSR&D; "Women Veterans Cohort Study"; PI: Haskell; Role: Co-Investigator; 20% effort; Grant period: 11/1/07 11/30/12.
- NIMH RC1-MH088349; "Economic Production Functions of Schizophrenia Treatment"; PI: Douglas Leslie; 25% effort; Total cost: \$914,235; Total cost year 1: \$496,384; Direct cost year 1: \$323,603; Grant period: 9/30/09 11/30/11.
- NIMH R01-MH073884; "Patterns of Service Use and Costs Associated with Autism"; PI: Douglas Leslie; 25% effort; Total cost: \$586,800; Total cost per year: \$195,600; Direct cost per year: \$150,000; Grant period: 8/1/06 5/31/10.
- Bristol-Myers Squibb; "Incidence and Cost of Diabetes Mellitus Associated with Antipsychotic Treatment of Schizophrenia"; PI: Douglas Leslie; 25% effort; Total cost: \$75,288; Total cost per year: \$37,644; Direct cost per year: \$37,644; Grant period: 9/1/02 8/30/04.
- NIA R01-AG12551; "Effectiveness of Delirium Prevention in Elderly Patients"; PI: Sharon Inouye; 7% effort; Total cost: \$1,287,036; Total cost per year: \$321,759; Direct cost per year: \$235,931; Grant period: 8/10/95 6/30/05.
- VA HSR&D MH102-001-2; "Effectiveness of Advisor-Teller Money Manager (ATM)"; PI: Marc Rosen; 10% effort; Total cost: \$597,000; Total cost per year: \$149,250; Direct cost per year: \$149,250; Grant period: 7/1/02 6/30/06.
- VA Center Grant CNTR998-045; "Mental Illness Research, Education and Clinical Center (MIRECC)"; PI: Bruce Rounsaville; 5% effort; Total cost: \$19,000,000; Total cost per year: \$1,900,000; Direct cost per year: \$1,560,000; Grant period: 10/1/97 6/30/07.

- NIMH 1N01-MH090001; "Clinical Antipsychotic Trials of Intervention Effectiveness (CATIE)"; PI: Jeffrey Lieberman; 5% effort; Total cost: \$42,137,622; Total cost per year: \$8,427,524; Direct cost per year: \$8,073,096; Grant period: 10/1/99 6/30/07.
- VA Center Grant; "Clinical Epidemiology Research Center"; PI: John Concato; 25% effort; Total cost: \$5,500,000; Total cost per year: \$500,000; Direct cost per year: \$500,000; Grant period: 4/1/03 3/31/08.

BIBLIOGRAPHY:

Original articles:

- 1. Beam-Goulet J, Rosenheck RA and Leslie DL. "Effectiveness of a Targeted Mailing Outreach Program on Supplemental Security Income Applications and Awards." *Social Service Review* 1999; December: 579-587.
- 2. Rosenheck RA, Druss BG, Stolar M, Leslie DL and Sledge W. "Effect of Declining Mental Health Service Use among Employees of a Large Self-Insured Private Corporation." *Health Affairs* 1999; 18(5): 193-203.
- 3. Leslie DL and Rosenheck RA. "Shifting to Outpatient Care? Mental Health Care Use and Costs under Private Insurance." *American Journal of Psychiatry* 1999; 156(8): 1250-1257.
- 4. Leslie DL and Rosenheck RA. "Inpatient Treatment of Comorbid Psychiatric and Substance Abuse Disorders: A Comparison of Public Sector and Privately Insured Populations." *Administration and Policy in Mental Health* 1999; 26(4): 253-268.
- 5. Leslie DL and Rosenheck RA. "Changes in Inpatient Mental Health Utilization and Costs in a Privately Insured Population, 1993-1995." *Medical Care* 1999; 37(5): 457-468.
- 6. Striegel-Moore RH, Leslie DL, Garvin V, Petrill S and Rosenheck RA. "One-year Use and Cost of Inpatient and Outpatient Services among Female and Male Patients with an Eating Disorder: Evidence from a National Database of Health Insurance Claims." *International Journal of Eating Disorders* 2000; 27(4): 381-389.
- 7. Leslie DL and Rosenheck RA. "Comparing Quality of Mental Health Care in Public Sector and Privately Insured Populations: First Efforts and Methodological Challenges." *Psychiatric Services* 2000; 51(5):650-655.
- 8. Leslie DL, Rosenheck RA, and White WD. "Capitated Payments for Mental Health Patients: A Comparison of Potential Approaches in a Public Sector Population." *Journal of Mental Health Policy and Economics* 2000; 3:35-44.
- 9. Rosenheck RA, Leslie DL and Sernyak MJ. "From Clinical Trials to Real-World Practice: Use of Atypical Antipsychotic Medication Nationally in the Department of Veterans Affairs." *Medical Care* 2001; 39(3): 302-308.

- 10. Leslie DL, Rosenheck RA, and Horwitz SM. "Patterns of Mental Health Utilization and Costs among Children in a Privately Insured Population." *Health Services Research* 2001; 36(1): 113-127.
- 11. Leslie DL and Rosenheck RA. "The Effect of Institutional Fiscal Stress on the Use of Atypical Antipsychotic Medications in the Treatment of Schizophrenia." *The Journal of Nervous and Mental Disease* 2001; 189(6): 377-383.
- 12. Leslie DL and Rosenheck RA. "The Quality of Pharmacotherapy for Schizophrenia in a National Health Care System: Individual and Facility Predictors." *Medical Care* 2001; 39(9): 923-933.
- 13. Sernyak MJ, Leslie DL, Alarcon R, Losonczy MF and Rosenheck RA. "Association of Diabetes Mellitus with the Use of Atypical Neuroleptics in the Treatment of Schizophrenia." *American Journal of Psychiatry* 2002; 159(4): 561-566.
- 14. Leslie DL and Rosenheck RA. "From Conventional Antipsychotics to Atypicals and Back: Dynamic Processes in the Diffusion of New Medications." *American Journal of Psychiatry* 2002; 159(9): 1534-1540.
- 15. Martin A, Sherwin T, Stubbe D, Van Hoof T, Scahill L, and Leslie D. "Use of Multiple Psychotropic Drugs by Medicaid-Insured and Privately Insured Children." *Psychiatric Services* 2002; 53(12): 1508.
- 16. Sernyak M, Leslie DL and Rosenheck RA. "Use of System-Wide Outcomes Monitoring Data to Compare the Effectiveness of Atypical Neuroleptic Medications." *American Journal of Psychiatry* 2003; 160(2): 310-315.
- 17. Martin A and Leslie DL. "Psychiatric inpatient, outpatient, and medication utilization and costs among privately insured youths, 1997-2000." *American Journal of Psychiatry*, 2003; 160(4): 757-764.
- 18. Rosenheck RA, Doyle J, Leslie DL and Fontana A. "Changing Environments and Alternative Perspectives in Evaluating the Cost-effectiveness of New Antipsychotic Drugs." *Schizophrenia Bulletin* 2003; 29(1): 81-93.
- 19. Sernyak MJ, Gulanski B, Leslie DL and Rosenheck RA. "Undiagnosed Hyperglycemia in Clozapine-Treated Patients with Schizophrenia." *Journal of Clinical Psychiatry* 2003; 64(5): 605-608.
- 20. Rosenheck RA and Leslie DL. "Administrative Prescription Review Procedures and Use of Atypical Antipsychotic Medications in the Department of Veterans Affairs." *Mental Health Services Research* 2003; 5(3): 149-153.
- 21. Rosenheck R, Leslie D and Woody G. "Fiscal Strain and Access to Opiate Substitution Therapy at Department of Veterans Affairs Medical Centers." *American Journal on Addictions* 2003; 12(3): 220-228.
- 22. Petrakis IL, Leslie DL and Rosenheck RA. "The use of antidepressants in alcohol dependent veterans." *Journal of Clinical Psychiatry* 2003; 64(8): 865-870.

- 23. Martin A and Leslie DL. "Trends in psychotropic medication costs for children and adolescents, 1997-2000." *Archives of Pediatrics and Adolescent Medicine* 2003; 157(10): 997-1004.
- 24. Petrakis IL, Leslie DL and Rosenheck RA. "Use of naltrexone in the treatment of alcoholism nationally in the Department of Veterans Affairs." *Alcoholism: Clinical and Experimental Research* 2003; 27(11): 1780-1784.
- 25. Rosenheck R, Perlick D, Bingham S, Liu-Mares W, Collins J, Warren S, Leslie D, for the Department of Veterans Affairs Cooperative Study Group on the Cost-Effectiveness of Olanzapine. Effectiveness and Cost of Olanzapine and Haloperidol in the Treatment of Schizophrenia: A Randomized Controlled Trial. *JAMA* 2003; 290(20): 2693-2702.
- 26. Leslie DL and Rosenheck RA. "Benchmarking the quality of schizophrenia pharmacotherapy: A comparison of the Department of Veterans Affairs and the Private Sector." *Journal of Mental Health Policy and Economics* 2003; 6(3): 113-121.
- 27. Martin A, Young C, Leckman JF, Mukonoweshuro C, Rosenheck R and Leslie D. "Age effects on antidepressant-induced manic conversion." *Archives of Pediatrics and Adolescent Medicine* 2004; 158(8): 773-780.
- 28. Busch SH, Leslie DL and Rosenheck RA. "Measuring Quality of Pharmacotherapy for Depression in a National Health Care System." *Medical Care* 2004; 42(6): 532-542.
- 29. Harpaz-Rotem I, Leslie DL and Rosenheck RA. "Treatment retention among children entering a new episode of mental health care." *Psychiatric Services* 2004; 55(9): 1022-1028.
- 30. Leslie DL and Rosenheck RA. "Incidence of Newly Diagnosed Diabetes Attributable to Atypical Antipsychotic Medications." *American Journal of Psychiatry* 2004; 161(9): 1709-1711.
- 31. Busch SH, Leslie DL and Rosenheck RA. "Comparing the Quality of Antidepressant Pharmacotherapy in the Department of Veterans Affairs and the Private Sector." *Psychiatric Services* 2004; 55(12): 1386-1391.
- 32. Leslie DL and Rosenheck RA. "Adherence of Schizophrenia Pharmacotherapy to Published Treatment Recommendations: Patient, Facility and Provider Predictors." *Schizophrenia Bulletin* 2004; 30(3): 649-658.
- 33. Sernyak MJ, Leslie DL and Rosenheck RA. "Predictors of antipsychotic medication change." *The Journal of Behavioral Health Services and Research* 2005; 32(1): 85-94.
- 34. Inouye SK, Leo-Summers L, Zhang Y, Bogardus ST, Leslie DL, and Agostini JV. "A Chart-Based Method for Identification of Delirium: Validation Compared with Interviewer Ratings Using the Confusion Assessment Method." *Journal of the American Geriatrics Society* 2005; 53(2): 312-318.
- 35. Leslie DL, Zhang Y, Bogardus ST, Holford TR, Leo-Summers LS, and Inouye SK. "Consequences of Preventing Delirium in Hospitalized Older Adults on Nursing Home Costs." *Journal of the American Geriatrics Society* 2005; 53(3): 405-409.

- 36. Miller EA, Leslie DL and Rosenheck RA. "Incidence of New-Onset Diabetes Mellitus Among Patients Receiving Atypical Neuroleptics in the Treatment of Mental Illness: Evidence from a Privately Insured Population." *Journal of Nervous and Mental Disease* 2005; 193(6): 387-395.
- 37. Leslie DL and Rosenheck RA. "Pharmacotherapy and Health Care Costs Among Patients with Schizophrenia and Newly Diagnosed Diabetes." *Psychiatric Services* 2005; 56(7):803-809.
- 38. Leslie DL, Zhang Y, Holford TR, Bogardus ST, Leo-Summers LS, and Inouye SK. "Premature Death Associated with Delirium at 1-Year Follow-up." *Archives of Internal Medicine* 2005; 165:1657-1662.
- 39. Harpaz-Rotem I, Leslie DL, Martin A and Rosenheck RA. "Changes in Child and Adolescent Inpatient Psychiatric Admission Diagnoses between 1995 and 2000." *Social Psychiatry and Psychiatric Epidemiology* 2005; 40(8): 642-7.
- 40. Hoblyn J, Noda A, Yesavage JA, Brooks JO, 3rd, Sheikh J, Lee T, Tinklenberg JR, Schneider B, O'hara R, Leslie DL, Rosenheck RA, Kraemer HC. Factors in choosing atypical antipsychotics: Toward understanding the bases of physicians' prescribing decisions. *Journal of Psychiatric Research* 2006; 40(2):160-166.
- 41. Chwastiak L, Rosenheck RA and Leslie D. "Impact of Medical Co-morbidity on the Quality of Schizophrenia Pharmacotherapy in a National VA Sample." *Medical Care* 2006; 44(1):55-61.
- 42. Petrakis IL, Leslie D, Finney JW and Rosenheck R. "Atypical antipsychotic medication and substance use-related outcomes in the treatment of schizophrenia." *American Journal on Addictions* 2006; 15(1):44-49.
- 43. Rosenheck RA, Leslie D, Keefe R, McEvoy J, Swartz M, Perkins D, Stroup S, Hsiao J, and Lieberman J. "Barriers to Employment for People with Schizophrenia." *American Journal of Psychiatry* 2006; 163(3):411-417.
- 44. McAvay GJ, Van Ness PH, Bogardus ST, Zhang Y, Leslie DL, Leo-Summers LS and Inouye SK. "Older Adults Discharged from the Hospital with Delirium: 1-Year Outcomes." *Journal of the American Geriatrics Society* 2006; 54:1245-1250.
- 45. Gore M, Dukes E, Rowbotham D, Tai KS and Leslie DL. "Clinical characteristics and pain management among patients with painful peripheral neuropathic disorders in general practice settings." *European Journal of Pain* 2006; 6(4): 265-272.
- 46. Gore M, Dukes E, Rowbotham D, Tai KS and Leslie DL. "Prevalence of contraindicated medical conditions and use of precluded medications in patients with painful neuropathic disorders prescribed amitriptyline." *Pain Practice* 2006; 6(4):265-72.
- 47. Rosenheck RA, Leslie DL, Sindelar J, Miller EA, Lin H, Stroup TS, McEvoy J, Davis S, Keefe RSE, Swartz M, Perkins D, Hsiao JK, Lieberman J for the CATIE Study Investigators. "Cost-Effectiveness of Second Generation Antipsychotics and Perphenazine in a Randomized Trial of Treatment for Chronic Schizophrenia." *American Journal of Psychiatry* 2006; 163(12): 2080-2089.
- 48. Leslie DL and Martin A. "Health Care Costs Associated with Autism-Spectrum Disorders." *Archives of Pediatrics and Adolescent Medicine* 2007 Apr; 161(4):350-355.

- 49. McAvay GJ, Van Ness PH, Bogardus ST, Zhang Y, Leslie DL, Leo-Summers LS and Inouye SK. "Depressive Symptoms and the Risk of Incident Delirium in Older Hospitalized Adults." *Journal of the American Geriatrics Society* 2007 May; 55(5): 684-91.
- 50. Rosenheck RA, Leslie DL, Sindelar JL, Miller EA, Tariot PN, Dagerman KS, Davis SM, Lebowitz BD, Rabins P, Hsiao JK, Lieberman JA, Schneider LS; Clinical Antipsychotic Trial of Intervention Effectiveness-Alzheimer's Disease (CATIE-AD) investigators. "Cost-benefit analysis of second-generation antipsychotics and placebo in a randomized trial of the treatment of psychosis and aggression in Alzheimer disease." *Archives of General Psychiatry* 2007 Nov; 64(11):1259-68
- 51. Leslie DL, Marcantonio ER, Zhang Y, Leo-Summers L and Inouye SK. "One-Year Health Care Costs Associated with Delirium in the Elderly Population." *Archives of Internal Medicine* 2008 Jan; 168(1): 27-32.
- 52. Rosenheck RA, Leslie DL, Busch S, Rofman ES and Sernyak M. "Rethinking Antipsychotic Formulary Policy." *Schizophrenia Bulletin* 2008; 34(2): 375-380.
- 53. Braithwaite RS, Meltzer DO, King JT Jr, Leslie DL and Roberts MS. "What Does the Value of Modern Medicine Say About the \$50,000 per Quality-Adjusted Life-Year Decision Rule?" *Medical Care* 2008; 46:349-356.
- 54. Rosenheck RA, Leslie DL and Doshi J. "Second-generation antipsychotics: cost-effectiveness, policy options, and political decision making." *Psychiatric Services* 2008; 59: 515-520.
- 55. Sernyak MJ, Leslie DL and Rosenheck RA. "Antipsychotic Use in the Treatment of Outpatients With Schizophrenia in the VA From Fiscal Years 1999 to 2006." *Psychiatric Services* 2008; 59: 567-569.
- 56. Gore M, Sadosky A, Leslie DL and Sheehan AH. "Selecting an Appropriate Medication for Treating Neuropathic Pain in Patients with Diabetes: A Study Using the UK and Germany Mediplus Databases." *Pain Practice* 2008; 8(4): 253-262.
- 57. Leslie DL and Rosenheck RA. "Diversity versus concentration in drug selection" *Journal of Mental Health Policy and Economics* 2008; 11: 107-112.
- 58. Leslie DL, Kozma L, Martin A, Landeros A, Katsovich L, King RA and Leckman JF. "Neuropsychiatric Disorders Associated with Streptococcal Infection: A Case-Control Study among Privately Insured Children." *Journal of the American Academy of Child and Adolescent Psychiatry* 2008; 47(10): 1166-1172.
- 59. Mohamed S, Leslie DL and Rosenheck RA. "Use of antipsychotics in the treatment of major depressive disorder in the U.S. Department of Veterans Affairs." *Journal of Clinical Psychiatry* 2009; 70(6): 906-912.
- 60. Leslie DL, Mohamed S, and Rosenheck RA. "Off-label use of antipsychotic medications in the Department of Veterans Affairs." *Psychiatric Services* 2009; 60(9): 1175-1181.

- 61. Mohamed S, Rosenheck R, Harpaz-Rotem I, Leslie D and Sernyak MJ. "Duration of pharmacotherapy with long-acting injectable risperidone in the treatment of schizophrenia." *Psychiatric Quarterly* 2009; 80: 241-249.
- 62. Busch SH, Frank RG, Leslie DL, Martin A, Rosenheck RA, Martin EG and Barry CL. "Antidepressants and suicide risk: How did specific information in FDA safety warnings affect treatment patterns?" *Psychiatric Services* 2010; 61(1): 11-16.
- 63. Makarov DV, Loeb S, Landman A, Nielsen M, Gross C, Leslie DL, Penson DF, and Desai RA. "Regional variation in total cost per radical prostatectomy in the healthcare cost and utilization project nationwide inpatient sample database." *The Journal of Urology* 2010; 183(4): 1504-1509.
- 64. Gore M, Zlateva G, Tai KS, Chandran AB and Leslie D. "Retrospective evaluation of clinical characteristics, pharmacotherapy and healthcare resource use among patients prescribed pregabalin or duloxetine for diabetic peripheral neuropathy in usual care." *Pain Practice* 2010; 11(2): 167-179.
- 65. Wang L and Leslie DL. "Health care expenditures for children with autism spectrum disorders in Medicaid." *Journal of the American Academy of Child and Adolescent Psychiatry* 2010; 49(11): 1165-1171.
- 66. Haskell SG, Mattocks K, Goulet JL, Krebs EE, Skanderson M, Leslie D, Justice AC, Yano EM and Brandt C. "The burden of illness in the first year home: do male and female VA users differ in health conditions and healthcare utilization." *Women's Health Issues* 2011; 21(1):92-7.
- 67. Gore M, Tai KS, Zlateva G, Bala Chandran A and Leslie D. "Clinical characteristics, pharmacotherapy, and healthcare resource use among patients with diabetic neuropathy newly prescribed pregabalin or gabapentin. *Pain Practice* 2011; 11(6): 528-39.
- 68. Leslie DL, Goulet J, Skanderson M, Mattocks K, Haskell S, and Brandt C. "VA health care utilization and costs among male and female Veterans in the year after service in Afghanistan and Iraq." *Military Medicine* 2011; 176(3): 265-269.
- 69. Kolanowski AM, Fick DM, Litaker MS, Clare L, Leslie D and Boustani M. "Study protocol for the recreational stimulation for elders as a vehicle to resolve delirium superimposed on dementia (RESERVE for DSD) trial." *Trials* 2011; 12:119.
- 70. Druss BG, von Esenwein SA, Compton MT, Zhao L, Leslie DL. "Budget Impact and Sustainability of Medical Care Management for Persons with Serious Mental Disorders." *American Journal of Psychiatry* 2011; 168(11): 1171-8.
- 71. Gore M, Sadosky A, Leslie D, Tai K and Stacey B. "Clinical comorbidities, treatment patterns, and direct medical costs of patients with osteoarthritis in usual care: a retrospective claims database analysis." *Journal of Medical Economics* 2011; 14(4): 497-507.
- 72. Gore M, Tai K, Chandran A, Zlateva G and Leslie D. "Clinical comorbidities, treatment patterns, and health care costs among patients with fibromyalgia newly prescribed pregabalin or duloxetine in usual care." *Journal of Medical Economics* 2011; 15(1): 19-31.

- 73. Gore M, Tai K, Chandran A, Zlateva G and Leslie D. "Clinical characteristics, pharmacotherapy, and healthcare resource use among patients with fibromyalgia newly prescribed pregabalin or tricyclic antidepressants." *Journal of Medical Economics* 2011; 15(1): 32-44.
- 74. Gore M, Sadosky A, Leslie D, Tai KS and Seleznick M. "Patterns of therapy switching, augmentation, and discontinuation after initiation of treatment with select pain medications in patients with osteoarthritis." *Clinical Therapeutics* 2011; 33(12): 1914-31.
- 75. Jablonski RA, Kolanowski AM, Therrien B, Mahoney EK, Kassab C and Leslie DL. "Reducing care-resistant behaviors during oral hygiene in persons with dementia." *BMC Oral Health* 2011; 11:30.
- 76. Leslie DL and Inouye SK. "The importance of delirium: economic and societal costs." *Journal of the American Geriatrics Society* 2011; 59:S241-S243.
- 77. Gore M, Sadosky A, Stacey BR, Tai KS, Leslie D. "The burden of chronic low back pain: clinical comorbidities, treatment patterns, and health care costs in usual care settings." *Spine* 2012; 37(11): E668-E677.
- 78. Gore M, Sadosky A, Leslie D, Tai KS, Emery P. "Therapy Switching, Augmentation, and Discontinuation in Patients with Osteoarthritis and Chronic Low Back Pain." *Pain Practice* 2012; 12(6): 457-68.
- 79. Gore M, Tai KS, Sadosky A, Leslie D, Stacey BR. "Use and Costs of Prescription Medications and Alternative Treatments in Patients with Osteoarthritis and Chronic Low Back Pain in Community-Based Settings." *Pain Practice* 2012; 12(7): 550-60.
- 80. Leslie DL and Rosenheck RA. "Off label use of antipsychotic medications in Medicaid." *American Journal of Managed Care* 2012; 18(3): e109-e117.
- 81. Stein BD, Sorbero MJ, Goswami U, Schuster J and Leslie DL. "Impact of a Private Health Insurance Mandate on Public Sector Autism Service Use in Pennsylvania." *Journal of the American Academy of Child and Adolescent Psychiatry* 2012; 51: 771-779.
- 82. Wang L, Mandell DS, Lawer L, Cidav Z and Leslie DL. "Healthcare service use and costs for autism spectrum disorder: A comparison between Medicaid and private insurance." *Journal of Autism and Developmental Disorders* 2013; 43(5): 1057-1064.
- 83. Weichers I, Leslie DL and Rosenheck RA. "Prescribing psychotropic medications in the absence of psychiatric diagnosis." *Psychiatric Services* 2013; 64(12): 1243-1248.
- 84. Schubart JR, Camacho F and Leslie D. "Psychotropic medication trends among children and adolescents with autism spectrum disorder in the Medicaid program." *Autism* 2014; 18(6): 631-637.
- 85. Lee YH, Liu G, Thiboutot DM, Leslie DL and Kirby JS. "A retrospective analysis of the duration of oral antibiotic therapy for the treatment of acne among adolescents: Investigating practice gaps and potential cost savings." *Journal of the American Academy of Dermatology* 2014; 71(1): 70-76.

- 86. Kirby JS, Miller JJ, Adams DR and Leslie D. "Health care utilization patterns and costs for patients with hidradenitis suppurativa," *JAMA Dermatology* 2014; 150(9): 937-944.
- 87. Stein BD, Gordon AJ, Dick AW, Burns RM, Pacula RL, Farmer CM, Leslie DL, Sorbero M. "Supply of Buprenorphine Waivered Physicians: The Influence of State Policies," *Journal of Substance Abuse Treatment* 2014; 48(1): 104-111.
- 88. Foy AJ, Liu G, Davidson WR, Sciamanna C and Leslie DL. "Comparative effectiveness of chest pain testing strategies: an analysis of downstream testing, interventions and outcomes," *JAMA Internal Medicine* 2015; 175(3): 428-436.
- 89. Leslie DL, Milchak W, Gastfriend D, Herschman PL, Bixler EO, Velott D, and Meyer RE. "Effects of Injectable Extended-Release Naltrexone (XR-NTX) for Opioid Dependence on Residential Rehabilitation Outcomes and Early Follow-up," *The American Journal on Addictions* 2015; 24(3): 265-270.
- 90. Rollins AL, McGrew JH, Kukla M, McGuire AB, Flanagan ME, Hunt MG, Leslie DL, Collins LA, Wright-Berryman JL, Hicks LJ, Salyers MP. "Comparison of Assertive Community Treatment Fidelity Assessment Methods: Reliability and Validity," *Administration and Policy in Mental Health and Mental Health Services Research* 2015; 43(2): 157-67.
- 91. Dick AW, Pacula RL, Gordon AJ, Sorbero M, Burns RM, Leslie D, and Stein BD. "Growth in buprenorphine waivers for physicians increased potential access to opioid agonist treatment, 2001-11," *Health Affairs* 2015; 34(6):1028-1034.
- 92. Safdar B, Dziura J, Bathulapalli H, Leslie DL, Skanderson M, Brandt C, and Haskell SG. "Chest pain syndromes are associated with high rates of recidivism and costs in young United States Veterans," *BMC Family Practice* 2015; 16:88.
- 93. Stein BD, Pacula RL, Gordon AJ, Burns RM, Leslie DL, Sorbero M, Bauhoff S, Mandell T, and Dick AW. "Where is buprenorphine dispensed for treating opioid use disorders? The role of private offices, opioid treatment programs, and substance abuse treatment facilities in urban and rural counties," *Milbank Quarterly* 2015; 93(3): 561-583.
- 94. Burns RM, Pacula RL, Bauhoff S, Gordon AJ, Hendrikson H, Leslie DL, and Stein BD. "Policies related to opioid agonist therapy for opioid use disorders: The evolution of state policies from 2004 to 2013," *Substance Abuse* 2016; 37(1): 63-9.
- 95. Velott DL, Agbese E, Mandell D, Stein BD, Dick AW, Yu H, and Leslie DL. "Medicaid 1915(c) Home- and Community-Based Services waivers for children with autism spectrum disorder," *Autism* 2016; 20(4): 473-482.
- 96. Rosenheck R, Leslie D, Sint K, Lin H, Robinson DG, Schooler NR, Mueser KT, Penn DL, Addington J, Brunette MF, Correll CU, Estroff SE, Marcy P, Robinson J, Severe J, Rupp A, Schoenbaum M, Kane JM. "Cost-effectiveness of comprehensive, integrated care for first-episode psychosis in the NIMH RAISE early treatment program," *Schizophrenia Bulletin* 2016; 42(4): 896-906.

- 97. Kirby JS, Delikat A, Leslie D, and Miller JJ. "Bundled payment models for actinic keratosis management," *JAMA Dermatology* 2016; 152(7): 789-797.
- 98. Rosenheck RA, Leslie DL, Sint KJ, Lin H, Li Y, McEvoy JP, Byerly MJ, Hamer RM, Swartz MS, and Stroup TS. "Cost-Effectiveness of Long-Acting Injectable Paliperidone Palmitate Versus Haloperidol Decanoate in Maintenance Treatment of Schizophrenia," *Psychiatric Services* 2016; 67(10): 1124-1130.
- 99. Jung K, Feldman R, Cheong C, Du P and Leslie D. "Coverage for Hepatitis C Drugs in Medicare Part D," *American Journal of Managed Care* 2016; 22(6): SP220-6.
- 100. Kocis PT, Liu G, Makenbaeva D, Trocio J, Velott D, Trainer JB, Abdulsattar Y, Molina MI and Leslie DL. "Use of Chronic Medications among Patients with Non-Valvular Atrial Fibrillation," *Drugs Real World Outcomes* 2016; 3(2): 165-173.
- 101. Liu G, Pearl AM, Kong L, Leslie DL, Murray MJ. "A Profile on Emergency Department Utilization in Adolescents and Young Adults with Autism Spectrum Disorders," *Journal of Autism and Developmental Disorders* 2016; epub ahead of print.
- 102. Tan X, Feng X, Chang J, Higa G, Wang L and Leslie D. "Oral antidiabetic drug use and associated health outcomes in cancer patients," *Journal of Clinical Pharmacy and Therapeutics* 2016; 41(5): 524-531.
- 103. Davies R, Liu G, Sciamanna C, Davidson WR, Jr., Leslie DL, Foy AJ. "Comparison of the Effectiveness of Stress Echocardiography Versus Myocardial Perfusion Imaging in Patients Presenting to the Emergency Department with Low-Risk Chest Pain," *American Journal of Cardiology* 2016; 118(12): 1786-1791.
- 104. Rollins AL, Kukla M, Salyers MP, McGrew JH, Flanagan ME, Leslie DL, Hunt MG and McGuire AB. "Comparing the Costs and Acceptability of Three Fidelity Assessment Methods for Assertive Community Treatment," *Administration and Policy in Mental Health* 2017; 44(5): 810-816.
- 105. Leslie DL, Iskandarani K, Dick AW, Mandell DS, Yu H, Velott D, Agbese E, and Stein BD. "The effects of Medicaid Home and Community Based Services waivers on unmet needs among children with autism spectrum disorder," *Medical Care* 2017; 55(1): 57-63.
- 106. Kasmari A, Welch A, Liu G, Leslie D, McGarrity T, and Riley T. "Independent of cirrhosis, hepatocellular carcinoma risk is increased with diabetes and metabolic syndrome: a retrospective cohort study," *American Journal of Medicine* 2017; epub ahead of print.
- 107. Leslie DL, Kobre RA, Richmand BJ, Aktan Guloksuz S, and Leckman JF. "Temporal Association of Certain Neuropsychiatric Disorders Following Vaccination of Children and Adolescents: A Pilot Case-Control Study," *Frontiers in Psychiatry* 2017; 8: 3.
- 108. Leslie DL, Iskandarani K, Velott DL, Stein BD, Mandell DS, Agbese E, and Dick AW. "Medicaid waivers targeting children with autism spectrum disorder reduce the need for parents to stop working," *Health Affairs* 2017; 36(2): 282-288.

- 109. Cohrs A and Leslie DL. "Depression in parents of children diagnosed with autism spectrum disorder: a claims-based analysis," *Journal of Autism and Developmental Disorders* 2017; 47(5): 1416-1422.
- 110. Liu G, Sterling NW, Kong L, Lewis MM, Mailman RB, Chen H, Leslie D and Huang X. "Statins may facilitate Parkinson's disease: Insight gained from a large, national claims database," *Movement Disorders* 2017; 32(6): 913-917.
- 111. Kirby JS, Gregory T, Liu G, Leslie DL and Miller JJ. "Variation in the cost of managing actinic keratosis," *JAMA Dermatology* 2017; 153(4): 264-269.
- 112. Bonazza NA, Liu G, Leslie DL, Dhawan A. "Trends in Surgical Management of Shoulder Instability," *Orthopaedic journal of sports medicine* 2017; 5(6):2325967117712476.
- 113. Rossi A, Berger K, Chen H, Leslie D, Mailman RB, and Huang X. "Projection of the prevalence of Parkinson's disease in the coming decades: Revisited." *Movement Disorders* 2018; 33(1): 156-159.
- 114. Leslie DL. "Understanding the costs of autism services," *Journal of the American Academy of Child and Adolescent Psychiatry* 2017; 56(9): 727-728.
- 115. Litz M and Leslie D. "The impact of mental health comorbidities on adherence to buprenorphine: A claims based analysis," *American Journal on Addiction* 2017; 26(8): 859-863.
- 116. Litz M, Rigby A, Rogers AM, Leslie DL, Hollenbeak CS. "The impact of mental health disorders on 30-day readmission after bariatric surgery," *Surgery for Obesity and Related Diseases* 2017; 14(3): 325-331.
- 117. Wilkinson ST, Agbese E, Leslie DL, Rosenheck RA. "Identifying Recipients of Electroconvulsive Therapy: Data from Privately Insured Americans," *Psychiatric Services* 2018; 69(5): 542-548.
- 118. Snyder AH, Weisman CS, Liu G, Leslie D and Chuang CH. "The impact of the Affordable Care Act on contraceptive use and costs among privately insured women," *Women's Health Issues* 2018; 28(3): 219-223.
- 119. Bonazza NA, Homcha B, Liu G, Leslie DL and Dhawan A. "Surgical trends in arthroscopic hip surgery using a large national database," *Arthroscopy* 2018; 34(6): 1825-1830.
- 120. Manhapra A, Agbese E, Leslie DL and Rosenheck RA. "Three-year retention in buprenorphine treatment for opioid use disorder among privately insured adults," *Psychiatric Services* 2018; 69(7):768-776.
- 121. Stein BD, Dick AW, Sorbero M, Gordon AJ, Burns RM, Leslie DL and Pacula RL. "A population-based examination of trends and disparities in medication treatment for opioid use disorders among Medicaid enrollees," *Substance Abuse* 2018; 39(4):419-425.
- 122. Roberts SCM, Upadhyay UD, Liu G, Kerns JL, Ba D, Beam N and Leslie DL. "Association of facility type with procedural-related morbidities and adverse events among patients undergoing induced abortions," *JAMA* 2018; 319(24): 2497-2506.

- 123. Keim-Malpass J, Cohrs AC, Lindley LC, Leslie DL. "An economic examination of private insurance claims among adolescents and young adults who were enrolled in hospice during the last year of life." *Adolescent Health, Medicine and Therapeutics*. 2018; 9:117-20.
- 124. Boltz M, Kuzmik A, Resnick B, Trotta R, Mogle J, BeLue R, Leslie D, Galvin JE. "Reducing disability via a family centered intervention for acutely ill persons with Alzheimer's disease and related dementias: protocol of a cluster-randomized controlled trial (Fam-FFC study)." *Trials*. 2018; 19(1):496.
- 125. Reynolds AW, Liu G, Kocis PT, Skowronski JN, Leslie DL, Fox EJ. "Comparison of Osteoporosis Pharmacotherapy Fracture Rates: Analysis of a MarketScan® Claims Database Cohort." *International Journal of Endocrinology and Metabolism.* 2018; 16(3):e12104.
- 126. Kundrick A, Kirby J, Ba D, Leslie D, Olsen N, Foulke G. "Positron emission tomography costs less to patients than conventional screening for malignancy in dermatomyositis." *Seminars in Arthritis and Rheumatism.* 2018; Epub ahead of print.
- 127. Roberts SCM, Beam N, Liu G, Upadhyay UD, Leslie DL, Ba D, Kerns JL. "Miscarriage Treatment-Related Morbidities and Adverse Events in Hospitals, Ambulatory Surgery Centers, and Office-Based Settings." *Journal of Patient Safety*. 2018; Epub ahead of print.
- 128. Lindley LC, Cohrs AC, Keim-Malpass J, Leslie DL. "Children Enrolled in Hospice Care Under Commercial Insurance: A Comparison of Different Age Groups." *Am J Hosp Palliat Care*. 2019; 36(2):123-129.
- 129. Liu G, Kong L, Leslie DL, Corr TE. "A Longitudinal Healthcare Use Profile of Children with a History of Neonatal Abstinence Syndrome." *The Journal of Pediatrics*. 2019; 204:111-7.
- 130. Lee JH, Ba D, Liu G, Leslie D, Zacharia BE, Goyal N. "Association of head and neck cancer with mental health disorders in a large insurance claims database." *JAMA Otolaryngol Head Neck Surg.* 2019;145(40):339-344.
- 131. LaClair M, Mandell DS, Dick AW, Iskandarani K, Stein BD and Leslie DL. "The effect of Medicaid waivers on ameliorating racial disparities among children with autism." *Health Services Research*. 2019; 54(4):912-919.
- 132. Steensma E, Zhou W, Ngo L, Gallagher J, Inouye S, Leslie D, Boltz M, Kolanowski A, Mion L, Marcantonio ER and Fick D. "Ultra-brief screeners for detecting delirium superimposed on dementia." *Journal of the American Medical Directors Association*. 2019;20(11):1391-1396.
- 133. Leslie DL, Ba DM, Agbese E, Xing X and Liu G. "The economic burden of the opioid epidemic on states: the case of Medicaid." *American Journal of Managed Care*. 2019; 25(13Suppl): S243-S249.
- 134. Liu G, Pearl AM, Kong L, Brown SL, Ba D, Leslie DL and Murray MJ. "Risk factors for emergency department utilization among adolescents with autism spectrum disorder." *Journal of Autism and Developmental Disorders*. 2019;49(11):4455-4467.
- 135. Wang L, Ma J, Dholakia R, Howells C, Lu Y, Chen C, Li R, Murray M and Leslie D. "Changes in

- healthcare expenditures after the autism insurance mandate." *Research in Autism Spectrum Disorders*. 2019; 57:97-104.
- 136. Waxmonsky JG, Baweja R, Liu G, Waschbusch DA, Fogel B, Leslie D and Pelham WE Jr. "A commercial insurance claims analysis of correlates of behavioral therapy use among children with ADHD." *Psychiatric Services*. 2019;70(12):1116-1122.
- 137. Weisman CS, Chuang CH, Snyder AH, Liu G and Leslie DL. "ACA's contraceptive coverage requirement: measuring use and out-of-pocket spending." *Health Affairs*. 2019; 38(9):1537-1541.
- 138. Leslie DL, Liu G, Jones BS and Roberts SCM. "Healthcare costs for abortions performed in ambulatory surgery centers versus office-based settings." *American Journal of Obstetrics & Gynecology*. 2019;222(4):348.e1-348.e9.
- 139. Corr TE, Schaefer EW, Hollenbeak CS, Leslie DL. "One-Year Postpartum Mental Health Outcomes of Mothers of Infants with Neonatal Abstinence Syndrome." *Maternal and Child Health Journal*. 2020;24(3):283-290.
- 140. Lee JH, Zacharia BE, Ba D, Leslie D, Liu G, Goyal N. "Mental Health Disorders Associated with Sinonasal and Skull Base Malignancies: A Large Cohort Study." *J Neurol Surg B Skull Base*. 2020;81(2):187-192.
- 141. Kalidindi Y, Jung J, Segel J, Leslie D. "Impact of Length of Hospice on Spending and Utilization Among Medicare Beneficiaries With Lung Cancer." *Am J Hosp Palliat Care*. 2020; Epub ahead of print.
- 142. Bonazza N, Smuin DM, Sterling N, et al. "Epidemiology of Surgical Treatment of Adolescent Sports Injuries in the United States: Analysis of the MarketScan Commercial Claims and Encounters Database." *Arthrosc Sports Med Rehabil.* 2019;1(1):e59-e65.
- 143. Bonazza NA, Smuin DM, Joshi R, et al. "Surgical Trends in Articular Cartilage Injuries of the Knee, Analysis of the Truven Health MarketScan Commercial Claims Database from 2005-2014." *Arthrosc Sports Med Rehabil.* 2019;1(2):e101-e107.
- 144. Agbese E, Leslie DL, Manhapra A, Rosenheck R. "Early Discontinuation of Buprenorphine Therapy for Opioid Use Disorder Among Privately Insured Adults." *Psychiatr Serv*. 2020;71(8):779-788.
- 145. Shi W, Agbese E, Solaiman AZ, Leslie DL, Gater DR. "Performance of Pain Interventionalists From Different Specialities in Treating Degenerative Disk Disease-Related Low Back Pain." *Arch Rehab Res Clin Transl.* 2020; 2(3):1-8.
- 146. Yevchak Sillner A, Ngo L, Jung Y, Inouye SK, Boltz M, Leslie D, Marcantonio ER, Fick DM. "Ultrabrief Screens for Detecting Delirium in Postoperative Cognitively Intact Older Adults." J Hosp Med. 2020;15(9):544-547.

- 147. Motyl CM, Ngo L, Zhou W, Zhou W, Jung Y, Leslie D, Boltz M, Husser E, Inouye SK, Fick D, Marcantonio ER. "Comparative Accuracy and Efficiency of Four Delirium Screening Protocols." *J Am Geriatr Soc.* 2020; Epub ahead of print.
- 148. Maurer R, Daggubati L, Ba DM, Liu G, Leslie D, Goyal N, Zacharia BE. "Mental Health Disorders in Patients with Untreated Meningiomas: An Observational Cohort Study Using the Nationwide MarketScan Database." *Neurooncol Pract.* 2020; 68(11):2572-2578.
- 149. Van de Louw A, Cohrs A, Leslie D. "Clinical Features and Outcomes of Thrombotic Microangiopathies: Comparison between Patients with and without Malignancy." *Throm Haemost*. 2020; Online ahead of print.
- 150. Zale C, Leslie D, Ba D, Liu G, Gallo R. "Those with Hemophilia or von Willebrand Disease Do Not Have Increased Perioperative Complications Following Anterior Cruciate Ligament Reconstruction: Results of a Case-Control Large-Database Study." *Knee* 2020; Online ahead of print.
- 151. Gou RY, Hshieh TT, Marcantonio ER, Cooper Z, Jones RN, TG Travison, TG Fong, Abdeen A, Lange J, Earp B, Schmitt EM, Leslie DL, Inouye SK. "One-Year Medicare Costs Associated with Delirium in a Cohort of Older Patients Undergoing Major Elective Surgery." *JAMA Surgery*. Accepted December 9, 2020.
- 152. Shen C, Thornton JD, Newport K, Schaefer E, Zhou S, Yee NS, Dodge D, Leslie D. "Trends and Patterns in the Use of Opioids Among Metastatic Breast Cancer Patients." *Scientific Reports* 2020; 10(1):21698.
- 153. Ridenour R, Kowalski C, Ba D, Liu G, Bible J, Garner M, Leslie D, Aynardi M, Dhawan A. "Opioid Use, Perioperative Risks, and Associated Postoperative Complications in Foot and Ankle Surgery." *Foot & Ankle Specialist* 2020; online ahead of print.
- 154. Naccarelli GV, Ruzieh M, Wolbrette DL, Sendra-Ferrer M, von Harskamp J, Bentz B, Caputo G, McConkey N, Mills K, Wasemiller S, Plamenac J, Leslie D, Glasser FD, Abendroth TW. "Oral Anticoagulant Use in High-Risk Patients Is Improved by Elimination of False-Positive and Inactive Atrial Fibrillation Cases." *American Journal of Medicine* 2020; online ahead of print.
- 155. Van de Louw A, Cohrs A, Leslie D. "Incidence of sepsis and associated mortality within the first year after cancer diagnosis in middle aged adults: a US population based study." *PLoS One* 2020; 15(12): e0243449.
- 156. Shi W, Agbese E, Solaiman AZ, Leslie DL, Gater DR. Performance of Pain Interventionalists From Different Specialties in Treating Degenerative Disk Disease-Related Low Back Pain. *Arch Rehabil Res Clin Transl* 2020; **2**(3) online ahead of print
- 157. Husser EK, Fick DM, Boltz M, Shrestha P, Siuta J, Malloy S, Overstreet A, Leslie DL, Ngo L, Jung Y, Inouye SK, Marcantonio ER. "Implementing a Rapid, Two-Step Delirium Screening Protocol in Acute Care: Barriers and Facilitators." *Journal of the American Geriatrics Society* 2021; online ahead of print.

- 158. Speer RR, Schaefer EW, Aholoukpe M, Leslie DL, Gandhi CK. Trends in Costs of Birth Hospitalization and Readmissions for Late Preterm Infants. *Children (Basel)* 2021; **8**(2).
- 159. Gou RY, Hshieh TT, Marcantonio ER, et al. One-Year Medicare Costs Associated With Delirium in Older Patients Undergoing Major Elective Surgery. *JAMA Surg* 2021; online ahead of print.
- 160. Nettrour JF, Bailey BS, Burch MB, Clair DD, June RR, Olsen NJ, Ba DM, Liu G, Leslie DL. Arthroplasty Rates Not Increasing in Young Patients With Rheumatoid Arthritis: A National Database Review, 2005 Versus 2014. *Arthroplast Today*. 2021 Mar 10;8:118-123. PMID: 33748370; PMCID: PMC7970009.
- 161. Cohrs AC, Pacula RL, Dick AW, Stein BD, Druss BG, Leslie DL. Trends in personal and family member opioid prescriptions prior to a diagnosis of an opioid-related problem among adolescents and young adults. *Subst Abus*. 2021 Apr 2:1-5. Epub ahead of print. PMID: 33797321.
- 162. Kowalski C, Ridenour R, McNutt S, Ba D, Liu G, Bible J, Aynardi M, Garner M, Leslie D, Dhawan A. Risk Factors For Prolonged Opioid Use After Spine Surgery. *Global Spine J*. 2021 Apr 15. Epub ahead of print. PMID: 33853404.
- 163. Liu G, Velott DL, Kong L, Dick AW, Mandell DS, Stein BD, Murray MJ, Ba DM, Cidav Z, Leslie DL. The Association of the Medicaid 1915(c) Home and Community-Based Services Waivers with Emergency Department Utilization among Youth with Autism Spectrum Disorder. *J Autism Dev Disord*. 2021 May 9. Epub ahead of print. PMID: 33966133.
- 164. Agbese E, Leslie DL, Ba DM, Rosenheck R. Does Electroconvulsive Therapy for Patients with Mood Disorders Extend Hospital Length of Stays and Increase Inpatient Costs? *Administration and Policy in Mental Health and Mental Health Services Research* 2021 June 5. Online ahead of print. PMID: 34089432.
- 165. Julian K, Ba DM, Liu G, Leslie DL, Chuang CH. Out-of-Pocket Costs of Insulin and Diabetes-Related Supplies Among Patients With Type 1 Diabetes. Clin Ther. 2021 Jun 20:S0149-2918(21)00223-X. Epub ahead of print. PMID: 34162482.
- 166. Coates MD, Ba DM, Liu G, Dalessio S, Leslie DL, Huang X. Revisiting the Association Between Inflammatory Bowel Disease and Parkinson's Disease. Inflamm Bowel Dis. 2021 Jul 14. Epub ahead of print. PMID: 34259840.
- 167. Agbese E, Stein BD, Druss BG, Dick AW, Pacula RL, Leslie DL. Mental Health Conditions and Substance Use Disorders Among Youth Subsequently Diagnosed With Opioid Use Disorder or Opioid Poisoning. J Addict Med. 2021 Jul 13. Epub ahead of print. PMID: 34261890.
- 168. Maurer R, McNutt S, Daggubati LC, Ba DM, Liu G, Leslie D, Goyal N, Zacharia BE. Mental health disorders in newly diagnosed non-functional pitutary adenoma under initial observation: an observational cohort study using the nationwide MarketScan database. Pituitary. 2021 Jul 16. doi: 10.1007/s11102-021-01172-1. Epub ahead of print. PMID: 34269977.

- 169. Van de Louw A, Cohrs A, Leslie D. Effects of Statins on the Incidence and Mortality of Sepsis in Patients with New Cancer Diagnosis. J Clin Med. 2021 Jul 31;10(15):3427. doi: 10.3390/jcm10153427. PMID: 34362212; PMCID: PMC8348477.
- 170. Shen C, Klein RW, Moss JL, Dodge DG, Chetlen AL, Stahl KA, Zhou S, Leslie DL, Ruffin MT, Lengerich EJ. Association Between Dense Breast Legislation and Cancer Stage at Diagnosis. Am J Prev Med. 2021 Aug 7:S0749-3797(21)00352-4. doi: 10.1016/j.amepre.2021.05.020. Epub ahead of print. PMID: 34376293.
- 171. Van de Louw A, Mariotte E, Darmon M, Cohrs A, Leslie D, Azoulay E. Outcomes in 1096 patients with severe thrombotic thrombocytopenic purpura before the Caplacizumab era. PLoS One. 2021 Aug 12;16(8):e0256024. doi: 10.1371/journal.pone.0256024. PMID: 34383822; PMCID: PMC8360509.
- 172. Armstrong B, Habtemariam D, Husser E, Leslie DL, Boltz M, Jung Y, Fick DM, Inouye SK, Marcantonio ER, Ngo LH. A mobile app for delirium screening. JAMIA Open. 2021 May 20;4(2). PMID: 34549169; PMCID: PMC8446432.
- 173. Nyland JE, Raja-Khan NT, Bettermann K, Haouzi PA, Leslie DL, Kraschnewski JL, Parent LJ, Grigson PS. Diabetes, Drug Treatment and Mortality in COVID-19: A Multinational Retrospective Cohort Study. Diabetes. 2021 Sep 27. Epub ahead of print. PMID: 34580086.
- 174. Zaorsky NG, Khunsriraksakul C, Acri SL, Liu DJ, Ba DM, Lin JL, Liu G, Segel JE, Drabick JJ, Mackley HB, Leslie DL. Medical Service Use and Charges for Cancer Care in 2018 for Privately Insured Patients Younger Than 65 Years in the US. JAMA Netw Open. 2021 Oct 1;4(10). PMID: 34613403; PMCID: PMC8495533.
- 175. Ba DM, McCall-Hosenfeld JS, Ssentongo P, Chinchilli VM, Agbese E, Liu G, Leslie DL, Du P. Cervical Cancer Screening Varies by HPV Vaccination Status among a National Cohort of Privately Insured Young Women in the United States 2006-2016. Medicine. 2021 Oct 15;100(41):e27457.
- 176. Marcantonio ER, Fick DM, Jung Y, Inouye SK, Boltz M, Leslie DL, Husser EK, Shrestha P, Moore A, Sulmonte K, Siuta J, Boustani M, Ngo LH. Comparative Implementation of a Brief App-Directed Protocol for Delirium Identification by Hospitalists, Nurses, and Nursing Assistants: A Cohort Study. Annals of Internal Medicine. 2021 Nov 9. Online ahead of print.
- 177. Tran L, Chetlen AL, Leslie DL, Segel JE. Effect of Out-of-Pocket Costs on Subsequent Mammography Screening. Journal of the American College of Radiology. 2021 Nov 5:S1546-1440(21)00830-9.
- 178. Roman Jones J, Boltz M, Allen R, Van Haitsma K, Leslie D. Nursing students' risk perceptions related to medication administration error: A qualitative study. Nurse Education in Practice. 2021 Dec 10;58:103274.
- 179. Boyd SS, Long JB, Agbese E, Leslie D. Incidence of Midurethral Sling Revision or Removal by Its Timing With Prolapse Surgery. Female Pelvic Med Reconstr Surg. 2022 Feb 1. Epub ahead of print.

- 180. Butzner M, Leslie DL, Cuffee Y, Hollenbeak CS, Sciamanna C, Abraham T. Stable Rates of Obstructive Hypertrophic Cardiomyopathy in a Contemporary Era. Front Cardiovasc Med. 2022 Jan 6;8:765876.
- 181. Landis RK, Levin JS, Saloner B, Gordon AJ, Dick AW, Sherry TB, Leslie DL, Sorbero M, Stein BD. Sociodemographic differences in quality of treatment to Medicaid enrollees receiving buprenorphine. Subst Abus. 2022 Dec;43(1):1057-1071.
- 182. Leslie DL, Fick DM, Moore A, Inouye SK, Jung Y, Ngo LH, Boltz M, Husser E, Shrestha P, Boustani M, Marcantonio ER. Comparative salary-related costs of a brief app-directed delirium identification protocol by hospitalists, nurses, and nursing assistants. J Am Geriatr Soc. 2022; 70:2371-2378.
- 183. Boyd SS, Long JB, Agbese E, Leslie D. Incidence of Midurethral Sling Revision or Removal by Its Timing With Prolapse Surgery. Female Pelvic Med Reconstr Surg. 2022 Feb 1. Epub ahead of print.
- 184. Butt M, Chinchilli VM, Leslie DL, Khesroh E, Helm MF, Flamm A, Kirby JS, Rigby A. Internalized skin bias: validation study to explore the impact of the internalization of social stigma on those with hidradenitis suppurativa. J Eur Acad Dermatol Venereol. 2022 Feb 16. Epub ahead of print.
- 185. Khesroh E, Butt M, Kalantari A, Leslie DL, Bronson S, Rigby A, Aumiller B. The use of emotional intelligence skills in combating burnout among residency and fellowship program directors. BMC Med Educ. 2022 Feb 25;22(1):127.
- 186. Butzner M, Leslie D, Cuffee Y, Hollenbeak CS, Sciamanna C, Abraham TP. Sex differences in clinical outcomes for obstructive hypertrophic cardiomyopathy in the USA: a retrospective observational study of administrative claims data. BMJ Open. 2022 Mar 9;12(3):e058151.
- 187. Butt M, Rigby A, Leslie DL, Foulke GT, Flamm A, Kirby JS, Chinchilli VM. Associations of Internalized Skin Bias With Age, Adverse Psychopathology, and Health-Related Quality of Life Among Patients With Hidradenitis Suppurativa: A Cross-sectional Analysis. JAMA Dermatol. 2022 Apr 1;158(4):432-438.
- 188. Diehl KC, Popadiuk CA, Agbese E, Leslie DL, Henao MP. Cost assessment of allergy procedures to improve high-value care implementation. Allergy Asthma Proc. 2022 Mar 1;43(2):168-172.
- 189. Bhanja D, Ba D, Tuohy K, Wilding H, Trifoi M, Padmanaban V, Liu G, Sughrue M, Zacharia B, Leslie D, Mansouri A. Association of Low-Grade Glioma Diagnosis and Management Approach with Mental Health Disorders: A MarketScan Analysis 2005-2014. Cancers (Basel). 2022 Mar 8;14(6):1376.
- 190. Coates MD, Ba DM, Liu G, Dalessio S, Leslie DL, Huang X. Response to the Letter to the Editor: "Re-Revisiting the Association Between Inflammatory Bowel Disease and Parkinson's Disease". Inflamm Bowel Dis. 2022 Mar 31:izac059.
- 191. Patel D, Liu G, Roberts SCM, Leslie DL, Weisman CS, Horvath S, Chuang CH. Association of Provider Specialty With Abortion-Related Morbidity and Adverse Events Among Patients Having

- Procedural and Medication Abortions. Womens Health Issues. 2022 Apr 15:S1049-3867(22)00025-1. Epub ahead of print.
- 192. Lekoubou A, Ba DM, Nguyen C, Liu G, Leslie DL, Bonilha L, Vernon CM. Poststroke Seizures and the Risk of Dementia Among Young Stroke Survivors. Neurology. 2022 May 18:10.1212/WNL.0000000000200736. Epub ahead of print. PMID: 35584925.
- 193. Roman Jones J, Boltz M, Allen R, Van Haitsma K, Leslie D. Nursing Students' Knowledge, Personality Traits, and Self-Efficacy Related to Medication Administration Error. J Nurs Educ. 2022 Jul;61(7):367-374. Epub 2022 Jul 1. PMID: 35858129.
- 194. Kuzmik A, Boltz M, BeLue R, Resnick B, Scott J, Mogle J, Leslie D, Galvin JE. The Modified Caregiver Strain Index in Black and White Dementia Caregivers at Hospital Discharge. Clin Gerontol. 2022 Aug 2:1-11. Epub ahead of print. PMID: 35916440.
- 195. Cohrs AC, Husnul Khotimah DE, Dick AW, Stein BD, Pacula RL, Druss BG, Kim K, Leslie DL. Spatial and temporal trends in the diagnosis of opioid-related problems in commercially-insured adolescents and young adults. Prev Med. 2022 Oct;163:107194. Epub 2022 Aug 12. PMID: 35970406.
- 196. Ramedani S, George DR, Leslie DL, Kraschnewski J. The bystander effect: Impact of rural hospital closures on the operations and financial well-being of surrounding healthcare institutions. J Hosp Med. 2022 Sep 16. Epub ahead of print. PMID: 36111585.
- 197. Landis RK, Opper I, Saloner B, Gordon AJ, Leslie DL, Sorbero M, Stein BD. Buprenorphine treatment episode duration, dosage, and concurrent prescribing of benzodiazepines and opioid analgesics: The effects of Medicaid prior authorization policies. Drug Alcohol Depend. 2022 Dec 1;241:109669. doi: 10.1016/j.drugalcdep.2022.109669. Epub 2022 Oct 21. PMID: 36332589.
- 198. Hshieh TT, Gou RY, Jones RN, Leslie DL, Marcantonio ER, Xu G, Travison TG, Fong TG, Schmitt EM, Inouye SK; BASIL I Study Group. One-year Medicare costs associated with delirium in older hospitalized patients with and without Alzheimer's disease dementia and related disorders. Alzheimers Dement. 2022 Nov 10. doi: 10.1002/alz.12826. Epub ahead of print. PMID: 36354163.
- 199. Choi SW, Agbese E, Cohrs AC, Ramos C, Leslie DL. The Implementation of the Tennessee Fetal Assault Law and Its Association With Out-of-State Births Among Residents of Tennessee. Womens Health Issues. 2022 Nov 25:S1049-3867(22)00113-X. doi: 10.1016/j.whi.2022.09.006. Epub ahead of print. PMID: 36443181.
- 200. Leboffe EN, Pietragallo HC, Liu G, Ba D, Leslie D, Chuang CH. The impact of the 2015 ACOG screening guidelines on the diagnosis of postpartum depression among privately insured women. J Affect Disord. 2023. Epub ahead of print. PMID: 36764363.
- 201. Tuohy K, Ba DM, Bhanja D, Leslie D, Liu G, Mansouri A. Early costs and complications of first-line low-grade glioma treatment using a large national database: Limitations and future perspectives. Front Surg. 2023 Feb 3;10:1001741. doi: 10.3389/fsurg.2023.1001741. PMID: 36816005; PMCID: PMC9935584.

- 202. Boltz M, Kuzmik A, Resnick B, BeLue R, Jao YL, Paudel A, Behrens L, Leslie D, Sinvani L, Galvin JE. Delirium and Behavioral Symptoms in Persons With Dementia at Hospital Admission: Mediating Factors. Alzheimer Dis Assoc Disord. 2023 Mar 13. doi: 10.1097/WAD.000000000000552. Epub ahead of print. PMID: 36897056.
- 203. Hsuan C, Carr BG, Vanness D, Wang Y, Leslie DL, Dunham E, Rogowski JA. A Conceptual Framework for Optimizing the Equity of Hospital-Based Emergency Care: The Structure of Hospital Transfer Networks. Milbank Q. 2023 Mar;101(1):74-125. doi: 10.1111/1468-0009.12609. Epub 2023 Mar 15. PMID: 36919402; PMCID: PMC10037699.
- 204. Ba DM, Hu A, Shen C, Leslie DL, Chinchilli VM, Rogers AM, Al-Shaar L. Trends and predictors of nutritional deficiencies after bariatric surgeries: analysis of real-world data. Surg Obes Relat Dis. 2023 Feb 23:S1550-7289(23)00091-6. doi: 10.1016/j.soard.2023.02.013. Epub ahead of print. PMID: 37005153.
- 205. Earlywine JJ, Bagley SM, Rodean J, Zima BT, Chadi N, Leslie DL, Hadland SE. Medications for Alcohol Use Disorder and Retention in Care in Medicaid-Enrolled Youth, 2014-2019. J Adolesc Health. 2023 May 29:S1054-139X(23)00170-2. doi: 10.1016/j.jadohealth.2023.03.005. Epub ahead of print. PMID: 37256254.
- 206. Kim K, Pacula RL, Dick AW, Stein BD, Druss BG, Agbese E, Cohrs AC, Leslie DL. Medical marijuana access and prolonged opioid use among adolescents and young adults. Am J Addict. 2023 Jun 8. doi: 10.1111/ajad.13440. Epub ahead of print. PMID: 37291067.
- 207. Agbese E, Leslie DL, Rosenheck R. Receipt of Electroconvulsive Therapy in Outpatient Settings in a National Sample of Privately Insured Patients With Mood Disorders. J ECT. 2023 Jul 20. doi: 10.1097/YCT.00000000000050. Epub ahead of print. PMID: 37530796.
- 208. Roberts SCM, Schulte A, Zaugg C, Leslie DL, Corr TE, Liu G. Association of Pregnancy-Specific Alcohol Policies With Infant Morbidities and Maltreatment. JAMA Netw Open. 2023 Aug 1;6(8):e2327138. doi: 10.1001/jamanetworkopen.2023.27138. PMID: 37535355; PMCID: PMC10401306.
- 209. Boltz M, Mogle J, Kuzmik A, BeLue R, Leslie D, Galvin JE, Resnick B. Testing an Intervention to Improve Posthospital Outcomes in Persons Living With Dementia and Their Family Care Partners. Innov Aging. 2023 Aug 16;7(7):igad083. doi: 10.1093/geroni/igad083. PMID: 37841214; PMCID: PMC10573730.
- 210. Choi SW, Agbese E, Kim G, Makhlouf MD, Leslie DL. Uninsured immigrants in the United States significantly delayed the initiation of prenatal care after the changes to the Public Charge Rule. Public Health. 2023 Oct 30;225:1-7. doi: 10.1016/j.puhe.2023.09.020. Epub ahead of print. PMID: 37913609.
- 211. Chuang CH, Weisman CS, Liu G, Horvath S, Velott DL, Zheng A, Leslie DL. Impact of the Affordable Care Act on Prescription Contraceptive Use and Costs Among Privately Insured Women, 2006-2020. Womens Health Issues. 2024 Jan-Feb;34(1):7-13. doi: 10.1016/j.whi.2023.08.007. Epub 2023 Nov 6. PMID: 37940509.

- 212. Shen C, Thornton JD, Li N, Schaefer E, Zhou S, Kawasaki S, Pameijer C, Leslie D. Opioid and Non-Opioid Pharmacotherapy Use for Pain Management Among Privately Insured Pediatric Patients With Cancer in the United States. Oncologist. 2023 Nov 7:oyad292. doi: 10.1093/oncolo/oyad292. Epub ahead of print. PMID: 37944042.
- 213. Dhliwayo R, Trivedi S, Ngo L, Fick DM, Inouye SK, Boltz M, Leslie D, Husser E, Shrestha P, Marcantonio ER. Factors associated with disagreement between clinician app-based ultra-brief Confusion Assessment Method and reference standard delirium assessments. J Am Geriatr Soc. 2023 Nov 28. doi: 10.1111/jgs.18690. Epub ahead of print. PMID: 38014821.
- 214. Ba DM, Risher KA, Ssentongo P, Zhang Y, Dai Q, Liu G, Maiga M, Zhang X, Diakite B, Coulibaly SDP, Hou L, Leslie DL, Chinchilli VM. Human Immunodeficiency Virus (HIV) Treatment With Antiretroviral Therapy Mitigates the High Risk of Mental Health Disorders Associated With HIV Infection in the US Population. Open Forum Infect Dis. 2023 Nov 7;10(11):ofad555. doi: 10.1093/ofid/ofad555. PMID: 38033986; PMCID: PMC10686352.
- 215. Hsuan C, Vanness DJ, Zebrowski A, Carr BG, Norton EC, Buckler DG, Wang Y, Leslie DL, Dunham EF, Rogowski JA. Racial and ethnic disparities in emergency department transfers to public hospitals. Health Serv Res. 2024 Apr;59(2):e14276. doi: 10.1111/1475-6773.14276. Epub 2024 Jan 17. PMID: 38229568; PMCID: PMC10915485.
- 216. Kim K, Liu G, Dick AW, Choi SW, Agbese E, Corr TE, Hsuan C, Wright MS, Park S, Velott D, Leslie DL. Timing of treatment for opioid use disorder among birthing people. J Subst Use Addict Treat. 2024 Jan 24;161:209289. doi: 10.1016/j.josat.2024.209289. Epub ahead of print. PMID: 38272119.
- 217. Schulte A, Liu G, Subbaraman MS, Kerr WC, Leslie D, Roberts SCM. Relationships Between Alcohol Policies and Infant Morbidities and Injuries. Am J Prev Med. 2024 Jan 25:S0749-3797(24)00003-5. doi: 10.1016/j.amepre.2024.01.003. Epub ahead of print. PMID: 38340136.
- 218. Shen C, Thornton JD, Li N, Zhou S, Wang L, Leslie DL, Kawasaki SS. Opioid Overdose Hospitalizations During COVID-19: The Experience of Pennsylvania. Subst Use. 2024 Jan 10;18:11782218231222343. doi: 10.1177/11782218231222343. PMID: 38433749; PMCID: PMC10906497.
- 219. Padmanaban V, Benjamin WJ, Cohrs A, Jareczek FJ, Hazard SW, Christopher Zacko J, Church EW, Simon SD, Cockroft KM, Leslie DL, Andrew Wilkinson D. Nationwide trends in intensive care unit utilization in the elective endovascular treatment of unruptured intracranial aneurysms. Interv Neuroradiol. 2024 Mar 7:15910199241233028. doi: 10.1177/15910199241233028. Epub ahead of print. PMID: 38454799.
- 220. McGinty EE, Alegria M, Beidas RS, Braithwaite J, Kola L, Leslie DL, Moise N, Mueller B, Pincus HA, Shidhaye R, Simon K, Singer SJ, Stuart EA, Eisenberg MD. The Lancet Psychiatry Commission: transforming mental health implementation research. Lancet Psychiatry. 2024 May;11(5):368-396. doi: 10.1016/S2215-0366(24)00040-3. Epub 2024 Mar 26. PMID: 38552663.
- 221. Norton J, Foy A, Ba DM, Liu G, Leslie D, Zhang Y, Naccarelli GV. Obese patients with new onset atrial fibrillation/flutter have higher risk of hospitalization, cardioversions, and ablations. Am Heart

- J Plus. 2024 Feb 29;40:100375. doi: 10.1016/j.ahjo.2024.100375. PMID: 38586434; PMCID: PMC10994861.
- 222. Thornton JD, Varisco T, Patel H, Shrestha M, Wanat M, Schaefer E, Leslie D, Zhao H, Saadi RA, Shen C. Characterising incident opioid use among incident users of prescription sedative hypnotics: A national cohort study. BMJ Open. 2024 May 30;14(5):e082339. doi: 10.1136/bmjopen-2023-082339. PMID: 38816043; PMCID: PMC11138274.
- 223. De Jesus S, Daya A, Blumberger L, Lewis MM, Leslie D, Tabbal SD, Dokholyan R, Snyder AM, Mailman RB, Huang X. Prevalence of Late-Stage Parkinson's Disease in the US Healthcare System: Insights from TriNetX. Mov Disord. 2024 Jul 4. doi: 10.1002/mds.29900. Epub ahead of print. PMID: 38962960.
- 224. Frederiksen B, Dennis E, Liu G, Leslie D, Salganicoff A, Roberts S. The limitations of using Medicaid administrative data in abortion research. Contraception. 2024 Sep 16:110704. doi: 10.1016/j.contraception.2024.110704. Epub ahead of print. PMID: 39293719.
- 225. Jareczek F, Tuohy K, Agbese E, Church E, Cockroft K, Simon S, Leslie DL, Wilkinson DA. National trends in catheter angiography and cerebrovascular imaging in a group of privately insured patients in the US. J Neurointerv Surg. 2024 Oct 15:jnis-2024-022296. doi: 10.1136/jnis-2024-022296. Epub ahead of print. PMID: 39406477.
- 226. Blumberger L, Calo W, Mallinson DJ, Liu G, Leslie DL. "Catching Chain" With Medicaid: The Impact of Medicaid Access on Opioid Overdose Mortality in Adults Released From State Detention. Psychiatr Res Clin Pract. 2024 Jun 6;6(3):94-103. doi: 10.1176/appi.prcp.20230080. PMID: 39568500; PMCID: PMC11574460.
- 227. Paudel S, Heebner M, Mainali G, Tencer JS, Kanwar R, Martel K, Kumar A, Naik SC, Pradhan S, Kandel P, Leslie D. Assessing the Need for Repeat EEG in Pediatric Patients with Idiopathic Generalized Epilepsy After Anti-Seizure Medication Withdrawal Following Seizure Freedom. J Child Neurol. 2024 Dec 10:8830738241292836. doi: 10.1177/08830738241292836. Epub ahead of print. PMID: 39654414.
- 228. Weisman CS, Velott D, Zheng A, Horvath S, Leslie D, Chuang CH. Contraception Coverage Policy in the United States: History and Current Challenges. Womens Health Issues. 2025 Apr 23:S1049-3867(25)00049-0. doi: 10.1016/j.whi.2025.03.002. Epub ahead of print. PMID: 40274516.

Chapters, books:

- Rosenheck RA and Leslie DL. "Economic Perspectives on the Treatment of Schizophrenia," in Murray R and Lieberman JA (Eds.) *Comprehensive Care of Schizophrenia: A Textbook of Clinical Management and Treatment*. London: Martin Dunitz, Ltd., 2001.
- Rosenheck RA and Leslie DL. "Cost-effectiveness and cost-benefit analysis," in Stroup TS and Lieberman JA (Eds.) *Antipsychotic Trials in Schizophrenia: The CATIE Project.* Cambridge: Cambridge University Press, 2010.

Letters/Editorials:

Rosenheck RA, Leslie DL and Doshi J. "Policy Implications of CATIE." *Psychiatric Services* 2008; 59: 695.

Papers in press/under review:

Working Papers:

- Lindrooth RC, Camacho FT and Leslie DL. "The role of adherence to drug therapy in the prevention of crisis-related hospital visits of persons with schizophrenia."
- Leslie DL and Waldfogel J. "Do Noncommercial Hospitals Cannibalize For-Profit Hospitals or Serve the Otherwise Unserved?"
- Leslie DL. "The Provision of Specialized Hospital Services: Is There a 'Medical Arms Race'?"
- Leslie DL. "Hospital Competition and Specialization."

INVITED WORKSHOPS:

- 2002 NIMH Pharmacoeconomics Workshop. Rountable participant. Bethesda, MD, May 23, 2002.
- 2002 Pharmaceutical Economics and Policy Council (PEPC) Meeting. Washington, DC, June 26, 2002.
- 2004 2nd NIMH Pharmacoeconomics Workshop. Panel participant. Washington, DC, May 24, 2004.
- 2004 12th NIMH Biennial Research Conference on the Economics of Mental Health Services. Discussant. Washington, DC, September 27-28, 2004.
- ^{7th} Workshop on Costs and Assessment in Psychiatry: Financing Mental and Addictive Disorders. Session Chair. Venice, Italy, March 18-20, 2005.
- 2008 American Society of Health Economists 2nd Biennial Conference. Discussant. Durham, NC, June 22-25, 2008.
- 2010 American Society of Health Economists 3rd Biennial Conference. Discussant. Ithaca, NY, June 20-23, 2010.
- 2017 Health Affairs Work and Health Issue Briefing. Presenter. Washington, DC, February 7, 2017.
- 2018 NIMH Autism Spectrum Disorder (ASD) Pediatric Early Detection Engagement and Services Network (PEDS) Meeting. Invited participant. Bethesda, MD, June 6, 2018.
- 2018 Center for Psychiatric Rehabilitation. State of the Science Webinar Cost Benefit Studies. Invited Participant. September 28, 2018 and October 19, 2018.
- 2018 Center for Psychiatric Rehabilitation. State of the Science Conference Cost Benefit Studies. Invited Participant. Boston University, Boston, MA, November 7, 2018.

PRESENTATIONS:

- Inpatient Treatment of Dual Diagnosis in VA and the Private Sector. Presentation at the 16th Annual VA HSR&D Service Meeting, Washington, DC, February 20, 1998.
- 1999 Comparing Quality of Mental Health Care in Public Sector and Privately Insured Populations: First Efforts and Methodological Challenges. Presentation at the 17th Annual VA HSR&D Service Meeting, Washington, DC, February 25, 1999.
- 1999 Comparing Reimbursement Models for VA Mental Health Services. Presentation at the 17th Annual VA HSR&D Service Meeting, Washington, DC, February 25, 1999.
- 1999 Shifting from Inpatient to Outpatient Care? Mental Health Utilization and Costs in a Privately Insured Population. Presentation at the 127th Annual Meeting of the American Public Health Association, Chicago, IL, November 9, 1999
- 2002 Comparing the Quality of Schizophrenia Pharmacotherapy in the VA and the Private Sector. Presentation at the 20th Annual VA HSR&D Service Meeting, Washington, DC, February 15, 2002.
- 2002 From Conventional Antipsychotics to Atypicals and Back: Dynamic Processes in the Diffusion of New Medications. Presentation at the International Society for Pharmacoeconomic and Outcomes Research (ISPOR) Annual Meeting, Arlington, VA, May 23, 2002
- 2003 Atypical Antipsychotics and Onset of Diabetes: Risk Factors and Cost Consequences. Presentation at the University of Utah Medical School, July 11, 2003.
- New-Onset Diabetes Attributable to Atypical Antipsychotic Medications. Presentation at the Annual VA HSR&D Service Meeting, Washington, DC, March 11, 2004.
- Adherence of Schizophrenia Pharmacotherapy to Published Treatment Recommendations: Patient, Facility and Provider Predictors. Presentation at Grand Rounds at the State University of New York at Stony Brook Medical Center, December 13, 2004.
- 2005 Incidence and Consequences of New-Onset Diabetes Attributable to Atypical Antipsychotic Medications. Presentation in the Department of Veteran Affairs Health Economics Resource Center CyberSeminar Series, January 26, 2005.
- 2005 Incidence and Consequences of New-Onset Diabetes Attributable to Atypical Antipsychotic Medications. Presentation at the State University of New York at Stony Brook Medical Center, March 4, 2005.
- 2005 Incidence and Consequences of New-Onset Diabetes Attributable to Atypical Antipsychotic Medications. Presentation at the Roudebush VA Medical Center, Indianapolis, IN, March 25, 2005.
- 2005 Changes in Antipsychotic Pharmacotherapy and Healthcare Costs Following a New Diagnosis of Diabetes among Patients with Schizophrenia. Presentation at the AcademyHealth Annual Research Meeting, Boston, MA, June 28, 2005.

- Health Care Service Use and Costs among Patients with Autism. Presentation at the NIMH Mental Health Services Research Conference, Bethesda, MD, July 19, 2005.
- One-year Health Care Costs Associated with Delirium. Presentation at the Gerontological Society of America's 58th Annual Scientific Meeting, Orlando, FL, November 20, 2005.
- Health Care Service Use and Costs among Patients with Autism. Presentation at the Annual Meeting of the American Public Health Association, Philadelphia, PA, December 12, 2005.
- Health Care Costs Associated with Autism. Presentation at the Inaugural Meeting of the American Society of Health Economists, Madison, WI, June 5, 2006.
- 2006 Cost-effectiveness of Second Generation Antipsychotics and Placebo in the Treatment of Alzheimer's Disease. Presentation at the 13th NIMH Biennial Research Conference on the Economics of Mental Health, Bethesda, MD, September 25, 2006.
- 2006 Risk of New-Onset Diabetes Attributable to Antipsychotic Medications and Implications for the Treatment of Patients with Schizophrenia. Presentation at the Virginia Commonwealth University Medical Center, Richmond, VA, November 14, 2006.
- 2006 Prescribing Patterns for Second-Generation Antipsychotic Medications in the Treatment of Schizophrenia. Presentation at the Gerontological Society of America's 59th Annual Scientific Meeting, Dallas, TX, November 17, 2006.
- 2006 Risk of New-Onset Diabetes Attributable to Antipsychotic Medications and Implications for the Treatment of Patients with Schizophrenia. Presentation at the Medical College of South Carolina, Charleston, SC, December 11, 2006.
- 2007 Risk of New-Onset Diabetes Attributable to Antipsychotic Medications and Implications for the Treatment of Patients with Schizophrenia. Presentation at the Penn State College of Medicine, Hershey, PA, February 13, 2007.
- 2009 Off-label use of second-generation antipsychotic medications in the Department of Veterans Affairs. Grand Rounds presentation in the Department of Psychiatry at the Penn State College of Medicine, Hershey, PA, December 17, 2009.
- 2010 Off-label Use and Antipsychotic Medications in Medicaid. Presentation at the American Society of Health Economists 3rd Biennial Conference, Ithaca, NY, June 21, 2010.
- 2010 Off-label Use and Antipsychotic Medications. Grand Rounds presentation in the Department of Psychiatry at the Yale School of Medicine, New Haven, CT, September 15, 2010.
- 2011 Off-label Use and Antipsychotic Medications. Grand Rounds presentation in the University of Colorado School of Public Health, Denver. CO, February 23, 2011.
- 2011 Health Care Service Use and Costs for Children with Autism Spectrum Disorder: A Comparison of Medicaid and Private Insurance. Presentation at the Penn State College of Medicine 4th Annual Department of Medicine Research Day, Hershey, PA, May 31, 2011.
- 2011 Off-label Use and Antipsychotic Medications. Presentation at the Penn State College of Medicine

- 4th Annual Department of Medicine Research Day, Hershey, PA, May 31, 2011.
- 2011 Health Care Service Use and Costs for Children with Autism Spectrum Disorder: A Comparison of Medicaid and Private Insurance. Presentation at the International Health Economics Association 8th World Congress on Health Economics, Toronto, Canada, July 12, 2011.
- 2013 Injectable Extended-Release Naltrexone (XR-NTX) in Opioid Dependence: Patient Characteristics, Coverage and Hospital Course. Presentation at the American Society of Addiction Medicine Annual Medical-Scientific Conference, Chicago, IL, April 26, 2013.
- 2013 Injectable Extended-Release Naltrexone (XR-NTX) in Opioid Dependence: Predictors of Use and Residential Rehabilitation Outcomes. Presentation at the College on Problems of Drug Dependence Annual Meeting, San Diego, CA, June 18, 2013.
- 2013 Autism Research Using Claims Data. Presentation at the Pediatric Department Research Series, Hershey, PA, September 18, 2013.
- 2014 Medicaid Cost and Utilization Outcomes in Opioid Dependent Treatment. Presentation at the International Society for Pharmacoeconomics and Outcomes Research Annual Meeting, Montreal, Canada, June 3, 2014.
- The True Value of Once Daily Dosing. Presentation at the Pfizer August Lunch & Learn, New York, NY, August 20, 2014
- 2014 Services for Children with Autism: The Role of Medicaid. Presentation at the Johns Hopkins School of Public Health, Baltimore, MD, October 29, 2014.
- 2014 Clinical Profiles of Chronic Medication Use Among Patients with Non-Valvular Atrial Fibrillation. Presentation at the American Heart Association Scientific Sessions, Chicago, IL, November 16, 2014.
- 2015 The Effects of Medicaid Home and Community Based Services Waivers on Unmet Needs of Children with Autism Spectrum Disorder. Presentation at the International Meeting for Autism Research, Salt Lake City, UT, May 14, 2015.
- 2015 State Home and Community Based Services Waivers for Children with ASD. Presentation at the International Meeting for Autism Research, Salt Lake City, UT, May 14, 2015.
- 2016 Prescription Variation of Biologics for Psoriasis. Poster presentation at the Society for Investigative Dermatology, Phoenix, AZ, May 12, 2016.
- 2016 The Effect of the Contraceptive Provision of the Affordable Care Act on Insertion Rates and Outof-Pocket Costs for Intrauterine Devices. Poster presentation at the Society for General Internal Medicine, Hollywood, FL, May 12, 2016.
- 2016 Medication-Assisted Treatment for Opioid Dependence: A Claims Based Analysis. Poster presentation at the International Society for Pharmacoeconomics and Outcomes Research, Washington, DC, May 24, 2016.

- 2016 Childhood Asthma Incidence and Medicaid Insurance: Findings from the National Longitudinal Survey 79 Child/Young Adult 1986-2012. Poster presentation at the Penn State College of Medicine Eighth Pediatric Research Day, Hershey, PA, May 26, 2016.
- The Effects of Medicaid Autism Waivers on Parental Employment. Podium presentation at the American Society of Health Economists Biennial Conference, Philadelphia, PA, June 14, 2016.
- 2018 Healthcare Expenditures for Abortion and Post-Abortion Follow-up Visits in Ambulatory Surgery Centers vs. Office-Based Settings. Podium presentation at the North American Forum on Family Planning, New Orleans, LA, October 20, 2018.
- 2021 Prevalence of opioid-related problems among commercially insured pregnant women. Podium presentation at the American Public Health Association Annual Meeting, Denver, CO, October 27, 2021.

ATTACHMENT B

ATTACHMENT B MATERIALS CONSIDERED

Bates Documents

MR CCSD 779237.

Legal Documents in This Matter

Amended Plaintiff Fact Sheet, in this matter, May 10, 2025.

Expert Report of Dr. Sharon Hoover, in this matter, May 16, 2025.

Expert Report of Dr. Sharon Hoover, in this matter, May 18, 2025.

Electronic Data

National Center for Education Statistics, "Search for Public School Districts: District Directory Information (2023-2024 School Year)," May 2025 (https://nces.ed.gov/ccd/districtsearch/index.asp).

U.S. Bureau of Labor Statistics, "Consumer Price Index for All Urban Consumers, Series ID CUUR0000SA0," (https://data.bls.gov/timeseries/CUUR0000SA0).

U.S. Bureau of Labor Statistics, "May 2024 Metropolitan and Nonmetropolitan Area Occupational Employment and Wage Estimates," (https://www.bls.gov/oes/current/oessrcma.htm).

U.S. Bureau of Labor Statistics, "Occupational Employment and Wage Statistics (OEWS) Tables: Metropolitan and nonmetropolitan area," May 2024 (https://www.bls.gov/oes/tables.htm).

Other Documents

CBO, "The Budget and Economic Outlook: 2025 to 2035," January 2025 (https://www.cbo.gov/system/files/2025-01/60870-Outlook-2025.pdf).

NCSMH, "SHAPE District Profile," Charleston County School District.

U.S. Bureau of Labor Statistics, "Employer Costs for Employee Compensation - December 2024," March 14, 2025 (https://www.bls.gov/news.release/pdf/ecec.pdf).

ATTACHMENT C

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Attachment C.1 BLS Annual Compensation for New Positions: Charleston County School District

1	2	3	4	5
Job	De D		Average Annual Salary	Estimated Fringe Cost
New Positions				
Director of Digital Literacy	1 per district	Education Administrators, Kindergarten through Secondary	\$103,500	\$16,281
Director of Digital Safety	1 per district	Education Administrators, Kindergarten through Secondary	\$103,500	\$16,281
Director of Life Skills Education	1 per district	Education Administrators, Kindergarten through Secondary	\$103,500	\$16,281
Director of Mental Health Literacy	1 per district	Education Administrators, Kindergarten through Secondary	\$103,500	\$16,281
Director of Student Mental Health	1 per district	Education Administrators, Kindergarten through Secondary	\$103,500	\$16,281
Director of Family Engagement and Education	1 per district	Education Administrators, Kindergarten through Secondary	\$103,500	\$16,281
Family Engagement Specialist	1 per school	Community Health Workers	\$51,850	\$8,156
IT Staff or Educational Technology Specialist	1 per school	Educational Instruction and Library Workers, All Other	\$56,350	\$8,864
School Counselor	1 per 250 students	Educational, Guidance, and Career Counselors and Advisors	\$64,170	\$10,094
School-Based Mental Health Clinician	1 per 500 students	Mental Health and Substance Abuse Social Workers	\$51,270	\$8,065
Peer Coordinator	1 per school	Community Health Workers	\$51,850	\$8,156
School Psychologist	1 per 500 students	School Psychologists	\$80,510	\$12,664
School-Based Therapist	1 per 750 students	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	\$58,920	\$9,268
Crisis Intervention Specialist	1 per school	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	\$58,920	\$9,268
Digital Literacy Specialist	1 per 500 students	Educational Instruction and Library Workers, All Other	\$56,350	\$8,864
Life Skills Specialist	1 per school	Child, Family, and School Social Workers	\$52,790	\$8,304
Mental Health Literacy Specialist	1 per 500 students	Child, Family, and School Social Workers	\$52,790	\$8,304

Attachment C.1 BLS Annual Compensation for New Positions: Charleston County School District

	6	7	8
Job	Average Annual Compensation	Quantity Required by District	Cumulative Annual Cost FY2024
New Positions			
Director of Digital Literacy	\$119,781	1	\$119,781
Director of Digital Safety	\$119,781	1	\$119,781
Director of Life Skills Education	\$119,781	1	\$119,781
Director of Mental Health Literacy	\$119,781	1	\$119,781
Director of Student Mental Health	\$119,781	1	\$119,781
Director of Family Engagement and Education	\$119,781	1	\$119,781
Family Engagement Specialist	\$60,006	80	\$4,800,480
IT Staff or Educational Technology Specialist	\$65,214	80	\$5,217,108
School Counselor	\$74,264	205	\$15,224,108
School-Based Mental Health Clinician	\$59,335	102	\$6,052,147
Peer Coordinator	\$60,006	80	\$4,800,480
School Psychologist	\$93,174	102	\$9,503,771
School-Based Therapist	\$68,188	68	\$4,636,792
Crisis Intervention Specialist	\$68,188	80	\$5,455,049
Digital Literacy Specialist	\$65,214	102	\$6,651,813
Life Skills Specialist	\$61,094	80	\$4,887,509
Mental Health Literacy Specialist	\$61,094	102	\$6,231,574

Notes and sources	
1-2	New full-time positions required by the strategic plan
3-4	Comparable positions and average annual salary for Charleston-North Charleston, SC metropolitan statistical area
	U.S. Bureau of Labor Statistics, "Occupational Employment and Wage Statistics (OEWS) Tables: Metropolitan and nonmetropolitan area," May 2024 (https://www.bls.gov/oes/tables.htm)
5	Fringe benefits as a percent of annual salary: 15.73%
	Calculated as Insurance / Wages and Salaries using the national average employer cost for Primary, Secondary, and Special Education School Teachers, or 7.63 / 48.50 I conservatively exclude all other benefit categories
	U.S. Bureau of Labor Statistics, "Employer Costs for Employee Compensation - December 2024," March 14, 2025, p. 5 (https://www.bls.gov/news.release/pdf/ecec.pdf)
6	= Column 4 + Column 5
7	Total number of schools, 2023-2024 school year: 80
	Total number of students, 2023-2024 school year: 51,166
	Amended Plaintiff Fact Sheet, in this matter, May 10, 2025
	See Expert Report of Dr. Sharon Hoover, in this matter, May 16, 2025; see also Expert Report of Dr. Sharon Hoover, in this matter, May 18, 2025
8	= Column 6 * Column 7

Attachment C.2 Consumer Price Index (CPI) and Discount Rate

	1	2	3
	CPI	CPI %	Discount
	CFI	Change	Rate
2023	304.7		
2024	313.7		
2025	319.3	1.79%	
2026		2.40%	4.10%
2027		2.30%	3.90%
2028		2.20%	3.90%
2029		2.20%	3.90%
2030		2.20%	3.90%
2031		2.20%	3.80%
2032		2.20%	3.80%
2033		2.20%	3.80%
2034		2.20%	3.80%
2035		2.20%	3.80%
2036		2.20%	3.80%
2037		2.20%	3.80%
2038		2.20%	3.80%
2039		2.20%	3.80%
2040		2.20%	3.80%

- 1 U.S. Bureau of Labor Statistics, "Consumer Price Index for All Urban Consumers, Series ID CUUR0000SA0," (https://data.bls.gov/timeseries/CUUR0000SA0)
 - Average value from the past year used
- 2 2025 = Column 1 / Column 1 from previous year 1 2026-2035 from CBO, "The Budget and Economic Outlook: 2025 to 2035," January 2025 (https://www.cbo.gov/system/files/2025-01/60870-Outlook-2025.pdf) 2036 to 2040 values equal the 2035 value
- 3 From CBO, *op. cit*. Projected 10-year Treasury notes interest rate used. Each year's interest rate is applied as the following year's discount rate

Attachment C.3 BLS Future Cost of New Positions: Charleston County School District

	1	2	3
	Total Cost	Present Value of Future Cost	Cumulative Present Value of Future Cost
2026	\$74,179,516	\$74,179,516	\$74,179,516
2027	\$75,959,824	\$72,968,131	\$147,147,647
2028	\$77,706,900	\$71,982,759	\$219,130,406
2029	\$79,416,452	\$70,804,986	\$289,935,392
2030	\$81,163,614	\$69,646,482	\$359,581,874
2031	\$82,949,214	\$68,506,935	\$428,088,809
2032	\$84,774,096	\$67,776,486	\$495,865,295
2033	\$86,639,126	\$66,731,762	\$562,597,056
2034	\$88,545,187	\$65,703,141	\$628,300,197
2035	\$90,493,181	\$64,690,376	\$692,990,573
2036	\$92,484,031	\$63,693,222	\$756,683,795
2037	\$94,518,680	\$62,711,438	\$819,395,233
2038	\$96,598,091	\$61,744,788	\$881,140,021
2039	\$98,723,249	\$60,793,038	\$941,933,058
2040	\$100,895,160	\$59,855,958	\$1,001,789,016

- 1 2026 value = C.1 Column 8 total
 - Later values = prior value * (100% + C.2 Column 2)

I conservatively use 2024 dollars from BLS and district budget salary data as a starting point in year 1 of the strategic plan

- 2 = Column 1 / $(1 + C.2 \text{ Column 3 [prior year]})^$ years since 2026
- 3 = Column 2 + Column 3 [prior value]

Attachment C.4 Budget Annual Compensation for New Positions: Charleston County School District

1	2	3	4	5
Job	Quantity Required	Comparable Job Title, Budget	Average Annual Salary	Estimated Fringe Cost
New Positions				
Director of Digital Literacy	1 per district	240 DIRECTOR (CERTIFIED)	\$114,920	\$40,222
Director of Digital Safety	1 per district	240 DIRECTOR (CERTIFIED)	\$114,920	\$40,222
Director of Life Skills Education	1 per district	240 DIRECTOR (CERTIFIED)	\$114,920	\$40,222
Director of Mental Health Literacy	1 per district	240 DIRECTOR (CERTIFIED)	\$114,920	\$40,222
Director of Student Mental Health	1 per district	240 DIRECTOR (CERTIFIED)	\$114,920	\$40,222
Director of Family Engagement and Education	1 per district	240 DIRECTOR (CERTIFIED)	\$114,920	\$40,222
Family Engagement Specialist	1 per school	240 FAMILY SERVICE MANAGER	\$76,673	\$26,836
IT Staff or Educational Technology Specialist	1 per school	IT SUPPORT TECHNICIAN LEVEL 3	\$66,194	\$23,168
School Counselor	1 per 250 students	240 GUIDANCE COUNSELOR	\$83,964	\$29,388
School-Based Mental Health Clinician	1 per 500 students	210 SCHOOL PSYCH 1	\$68,934	\$24,127
Peer Coordinator	1 per school	240 GUIDANCE COUNSELOR	\$83,964	\$29,388
School Psychologist	1 per 500 students	210 SCHOOL PSYCH 1	\$68,934	\$24,127
School-Based Therapist	1 per 750 students	210 SCHOOL PSYCH 1	\$68,934	\$24,127
Crisis Intervention Specialist	1 per school	190 SOCIAL WORKER	\$56,439	\$19,754
Digital Literacy Specialist	1 per 500 students	190 INTERVENTIONIST	\$62,191	\$21,767
Life Skills Specialist	1 per school	190 SOCIAL WORKER	\$56,439	\$19,754
Mental Health Literacy Specialist	1 per 500 students	190 INTERVENTIONIST	\$62,191	\$21,767

Attachment C.4 Budget Annual Compensation for New Positions: Charleston County School District

	6	7	8
Job	Average Annual Compensation	Quantity Required by District	Cumulative Annual Cost FY2024
New Positions			
Director of Digital Literacy	\$155,142	1	\$155,142
Director of Digital Safety	\$155,142	1	\$155,142
Director of Life Skills Education	\$155,142	1	\$155,142
Director of Mental Health Literacy	\$155,142	1	\$155,142
Director of Student Mental Health	\$155,142	1	\$155,142
Director of Family Engagement and Education	\$155,142	1	\$155,142
Family Engagement Specialist	\$103,509	80	\$8,280,684
IT Staff or Educational Technology Specialist	\$89,362	80	\$7,148,959
School Counselor	\$113,352	205	\$23,237,117
School-Based Mental Health Clinician	\$93,060	102	\$9,492,147
Peer Coordinator	\$113,352	80	\$9,068,143
School Psychologist	\$93,060	102	\$9,492,147
School-Based Therapist	\$93,060	68	\$6,328,098
Crisis Intervention Specialist	\$76,193	80	\$6,095,431
Digital Literacy Specialist	\$83,958	102	\$8,563,735
Life Skills Specialist	\$76,193	80	\$6,095,431
Mental Health Literacy Specialist	\$83,958	102	\$8,563,735

Notes and sources		
1-2	New full-time positions required by the strategic plan	
3-4	Comparable positions and annual salary for Charleston Co are held steady from salary data in this document from F	•
	MR_CCSD_779237, tab "2023 Pays"	
5	Fringe benefits as a percent of annual salary:	35.00%
	This rate provided to me by counsel for the district	
6	= Column 4 + Column 5	
7	Total number of schools, 2023-2024 school year:	80
	Total number of students, 2023-2024 school year:	51,166
	Amended Plaintiff Fact Sheet, in this matter, May 10, 202	5
		May 16, 2025; see also Expert Report of Dr. Sharon Hoover,
	in this matter, May 18, 2025	
8	= Column 6 * Column 7	

Attachment C.5 Budget Future Cost of New Positions: Charleston County School District

	1	2	3
	Total Cost	Present Value of Future Cost	Cumulative Present Value of Future Cost
2026	\$103,296,478	\$103,296,478	\$103,296,478
2027	\$105,775,594	\$101,609,600	\$204,906,078
2028	\$108,208,432	\$100,237,450	\$305,143,528
2029	\$110,589,018	\$98,597,376	\$403,740,904
2030	\$113,021,976	\$96,984,137	\$500,725,042
2031	\$115,508,460	\$95,397,294	\$596,122,335
2032	\$118,049,646	\$94,380,129	\$690,502,464
2033	\$120,646,738	\$92,925,329	\$783,427,794
2034	\$123,300,966	\$91,492,954	\$874,920,748
2035	\$126,013,587	\$90,082,658	\$965,003,407
2036	\$128,785,886	\$88,694,101	\$1,053,697,508
2037	\$131,619,176	\$87,326,947	\$1,141,024,455
2038	\$134,514,798	\$85,980,867	\$1,227,005,322
2039	\$137,474,123	\$84,655,536	\$1,311,660,858
2040	\$140,498,554	\$83,350,634	\$1,395,011,492

- 1 2026 value = C.4 Column 8 total
 - Later values = prior value * (100% + C.2 Column 2)

I conservatively use 2024 dollars from BLS and district budget salary data as a starting point in year 1 of the strategic plan

- 2 = Column 1 / $(1 + C.2 \text{ Column 3 [prior year]})^$ years since 2026
- 3 = Column 2 + Column 3 [prior value]

ATTACHMENT D

Attachment D.1 BLS Costs for Training and Development: Charleston County School District

1	2	3	4	5	6	7
Role	Training Plan Year	Number to Train	Training Hours per Person	Total Training Hours	Average Hourly Rate	Annual Cost
15-Year Plan for Social Media Policies and Staff Professional Development						
District Leadership Team	1	6	40	240	\$57.59	\$13,821
School Leadership Team	1	160	8	1,280	\$31.35	\$40,132
District and School Staff - All	1	7,411	4	29,646	\$34.97	\$1,036,729
District Leadership Team - Quarterly Check-In	2-15	6	8	48	\$57.59	\$2,764
School Leadership Team - Quarterly Check-In	2-15	160	8	1,280	\$31.35	\$40,132
School Leadership Team - New	2-15	16	8	128	\$31.35	\$4,013
District and School Staff - New	2-15	741	2	1,482	\$34.97	\$51,826
District and School Staff - All, Refresher Training	2-15	6,670	1	6,670	\$34.97	\$233,253
15-Year Professional Development Plan for Digital Literacy						
District Leaders	1	2	40	80	\$57.59	\$4,607
School Digital Literacy Specialists	1	102	12	1,224	\$31.35	\$38,376
School Digital Literacy Specialists - New	2-15	10	12	120	\$31.35	\$3,762
School Digital Literacy Specialists - Refresher Training	2-15	92	1	92	\$31.35	\$2,884
15-Year Professional Development Plan for Life Skills Programming						
District Leaders	1	2	40	80	\$57.59	\$4,607
School Life Skills Specialists	1	80	10	800	\$35.25	\$28,197
Teachers - Pilot	1	362	4	1,448	\$40.45	\$58,571
School Life Skills Specialists - New	2	8	10	80	\$35.25	\$2,820
Teachers - New and Untrained	2	3,653	4	14,612	\$40.45	\$591,045
Teachers - Pilot Refresher	2	326	1	326	\$40.45	\$13,186
School Life Skills Specialists - New	3-15	8	10	80	\$35.25	\$2,820
Teachers - New and Untrained	3-15	362	4	1,448	\$40.45	\$58,571
Teachers - Refresher	3-15	3,255	1	3,255	\$40.45	\$131,662
15-Year Professional Development Plan for Mental Health Literacy						
District Leaders	1	2	40	80	\$57.59	\$4,607
School Mental Health Literacy Specialists	1	102	12	1,224	\$29.37	\$35,951
School Mental Health Literacy Specialists - New	2-15	10	12	120	\$29.37	\$3,525
School Mental Health Literacy Specialists - Refresher Training	2-15	92	1	92	\$29.37	\$2,702
15-Year Professional Development Plan for Anti-Cyberbullying Programming	g					
District Leadership Team	1	6	8	48	\$57.59	\$2,764
School Leadership Team	1	160	8	1,280	\$31.35	\$40,132
School Leadership Team - New	2	16	8	128	\$31.35	\$4,013
School Leadership Team - Refresher	2	144	1	144	\$31.35	\$4,515
District and School Staff - All - Anti-Cyberbullying	2	7,411	2	14,823	\$34.97	\$518,365
District and School Staff - All - Restorative Practice	2	7,411	2	14,823	\$34.97	\$518,365
District and School Staff - 60% - Community Building	2	4,447	8	35,576	\$34.97	\$1,244,107
District and School Staff - 20% - Responsive & Harm	2	1,482	16	23,712	\$34.97	\$829,218
District and School Staff - 5% - Restorative Conferencing	2	371	16	5,936	\$34.97	\$207,584

Attachment D.1 BLS Costs for Training and Development: Charleston County School District

1	2	3	4	5	6	7
Role	Training Plan Year	Number to Train	Training Hours per Person	Total Training Hours	Average Hourly Rate	Annual Cost
Peer Coordinators and Peers	2	39	8	312	\$28.85	\$9,001
School Leadership Team - New	3-15	16	8	128	\$31.35	\$4,013
School Leadership Team - Refresher	3-15	144	1	144	\$31.35	\$4,515
District and School Staff - New - Anti-Cyberbullying	3-15	741	2	1,482	\$34.97	\$51,826
District and School Staff - New - Restorative Practice	3-15	741	2	1,482	\$34.97	\$51,826
District and School Staff - New - Community Building	3-15	445	8	3,560	\$34.97	\$124,495
District and School Staff - New - Responsive & Harm	3-15	148	16	2,368	\$34.97	\$82,810
District and School Staff - New - Restorative Conferencing	3-15	37	16	592	\$34.97	\$20,702
Peer Coordinators and Peers - New	3-15	4	8	31	\$28.85	\$900
15-Year Professional Development Plan for Family Engagement and Ed	ducation Workshops on Soci	al Media Use				
Director of Family Engagement and Education	1	1	40	40	\$57.59	\$2,303
School Family Engagement Specialist	1	80	10	800	\$28.85	\$23,079
School Counselors - Supporting Workshops	1	16	4	64	\$42.84	\$2,742
School Family Engagement Specialist - New	2	8	10	80	\$28.85	\$2,308
School Counselors - Supporting Workshops - Remainder	2	144	4	576	\$42.84	\$24,678
School Family Engagement Specialist - New	3-15	8	10	80	\$28.85	\$2,308
School Counselors - Supporting Workshops - New	3-15	16	4	64	\$42.84	\$2,742
School Family Engagement Specialist - Refresher	3-15	72	2	144	\$28.85	\$4,154
School Counselors - Supporting Workshops - Refresher	3-15	144	2	288	\$42.84	\$12,339
15-Year Professional Development Plan for Clinical Assessment and In	tervention Skills for Social N	Media-Related Menta	ıl Health Concern	S		
Director of Student Mental Health	1	1	100	100	\$57.59	\$5,759
School Counselors	1	205	20	4,100	\$42.84	\$175,663
School-Based Mental Health Clinicians	1	102	20	2,040	\$34.23	\$69,832
School Psychologists	1	102	20	2,040	\$53.75	\$109,659
School-Based Therapists	1	68	20	1,360	\$39.34	\$53,501
Crisis Intervention Specialists	1	80	20	1,600	\$39.34	\$62,943
School Counselors - New	2-15	20	20	400	\$42.84	\$17,138
School-Based Mental Health Clinicians - New	2-15	10	20	200	\$34.23	\$6,846
School Psychologists - New	2-15	10	20	200	\$53.75	\$10,751
School-Based Therapists - New	2-15	7	20	140	\$39.34	\$5,508
Crisis Intervention Specialists - New	2-15	8	20	160	\$39.34	\$6,294
School Counselors- Refresher Training	2-15	184	4	736	\$42.84	\$31,534
School-Based Mental Health Clinicians - Refresher Training	2-15	92	4	368	\$34.23	\$12,597
School Psychologists - Refresher Training	2-15	92	4	368	\$53.75	\$19,782
School-Based Therapists - Refresher Training	2-15	61	4	244	\$39.34	\$9,599
Crisis Intervention Specialists - Refresher Training	2-15	72	4	288	\$39.34	\$11,330

1-4 Training and ongoing professional development requirements for the strategic plan

Number of Schools (23-24)	80
Number of Students (District-Wide) (23-24)	51,166
Number of District Employees (23-24)	6,324
Number of Teachers (23-24)	3,617
Number of New Hires	1,087
Number of Middle and High Schools	39

For new hires, see Attachment C.1, Column 7 of this Report

For position counts in Column 3, I round to the nearest whole number. In some cases the results are a 0 total for position count, or totals that are marginally different from strategic plan totals.

For all other figures, see Amended Plaintiff Fact Sheet, in this matter, May 10, 2025

See Expert Report of Dr. Sharon Hoover, in this matter, May 16, 2025; see also Expert Report of Dr. Sharon Hoover, in this matter, May 18, 2025

- 5 = Column 3 * Column 4
- 6 D.2 Column 4
- 7 = Column 5 * Column 6

Attachment D.2 BLS Compensation Rates for Training and Development: Charleston County School District

1	2	3	4
Role	Average Annual Compensation	Hours per Year	Average Hourly Rate
15-Year Plan for Social Media Policies and Staff Professional Development			
District Leadership Team			\$57.59
Director of Digital Literacy	\$119,781	2080	\$57.59
Director of Digital Safety	\$119,781	2080	\$57.59
Director of Life Skills Education	\$119,781	2080	\$57.59
Director of Mental Health Literacy	\$119,781	2080	\$57.59
Director of Student Mental Health	\$119,781	2080	\$57.59
Director of Family Engagement and Education	\$119,781	2080	\$57.59
School Leadership Team			\$31.35
Digital Literacy Specialist	\$65,214	2080	\$31.35
IT Staff or Educational Technology Specialist	\$65,214	2080	\$31.35
District and School Staff*			\$34.97
District Administrators	\$119,781	2080	\$57.59
Teachers	\$70,112	1733	\$40.45
Health Care Workers	\$68,010	1733	\$39.24
All Other	\$49,914	2080	\$24.00
15-Year Professional Development Plan for Digital Literacy			
District Leaders			\$57.59
Director of Digital Literacy	\$119,781	2080	\$57.59
Director of Digital Safety	\$119,781	2080	\$57.59
Digital Literacy Specialist	\$65,214	2080	\$31.35
15-Year Professional Development Plan for Life Skills Programming			
District Leaders			\$57.59
Director of Life Skills Education	\$119,781	2080	\$57.59
Director of Student Mental Health	\$119,781	2080	\$57.59
Life Skills Specialist	\$61,094	1733	\$35.25
Teachers	\$70,112	1733	\$40.45
15-Year Professional Development Plan for Mental Health Literacy			
District Leaders			\$57.59
Director of Mental Health Literacy	\$119,781	2080	\$57.59
Director of Student Mental Health	\$119,781	2080	\$57.59
Mental Health Literacy Specialist	\$61,094	2080	\$29.37
15-Year Professional Development Plan for Anti-Cyberbullying Programmin	g		
District Leadership Team			\$57.59
Director of Digital Literacy	\$119,781	2080	\$57.59
Director of Digital Safety	\$119,781	2080	\$57.59
Director of Life Skills Education	\$119,781	2080	\$57.59
Director of Mental Health Literacy	\$119,781	2080	\$57.59

Attachment D.2 BLS Compensation Rates for Training and Development: Charleston County School District

1	2	3	4
Role	Average Annual Compensation	Hours per Year	Average Hourly Rate
Director of Student Mental Health	\$119,781	2080	\$57.59
Director of Family Engagement and Education	\$119,781	2080	\$57.59
School Leadership Team			\$31.35
Digital Literacy Specialist	\$65,214	2080	\$31.35
IT Staff or Educational Technology Specialist	\$65,214	2080	\$31.35
District and School Staff*			\$34.97
District Administrators	\$119,781	2080	\$57.59
Teachers	\$70,112	1733	\$40.45
Health Care Workers	\$68,010	1733	\$39.24
All Other	\$49,914	2080	\$24.00
Peer Coordinator	\$60,006	2080	\$28.85
15-Year Professional Development Plan for Family Engagement ar	nd Education Workshops on S	Social Media Use	
Director of Family Engagement and Education	\$119,781	2080	\$57.59
Family Engagement Specialist	\$60,006	2080	\$28.85
School Counselor	\$74,264	1733	\$42.84
15-Year Professional Development Plan for Clinical Assessment and	nd Intervention Skills for Soci	ial Media-Related	Mental Health
Concerns			
Director of Student Mental Health	\$119,781	2080	\$57.59
School Counselor	\$74,264	1733	\$42.84
School-Based Mental Health Clinician	\$59,335	1733	\$34.23
School Psychologist	\$93,174	1733	\$53.75
School-Based Therapist	\$68,188	1733	\$39.34
Crisis Intervention Specialist	\$68,188	1733	\$39.34

- 1 See Expert Report of Dr. Sharon Hoover, in this matter, May 16, 2025; see also Expert Report of Dr. Sharon Hoover, in this matter, May 18, 2025
- 2 See Attachment C.1 Column 6 and Attachment E.1 Column 4 of this Report
- 3 Administrators and Other Staff: 40 hours per week, 52 weeks

Teachers and Support Staff: 40 hours per week, 43.3 weeks

4 = Column 2 / Column 3

Category rates are calculated as an average of positions

^{*}I adjust hourly rates for trainings that include all staff using ratios derived in Attachment E.1 Column 6

Attachment D.3 Consumer Price Index (CPI) and Discount Rate

	1	2	3
	CPI	CPI % Change	Discount Rate
2023	304.7		
2024	313.7		
2025	319.3	1.79%	
2026		2.40%	4.10%
2027		2.30%	3.90%
2028		2.20%	3.90%
2029		2.20%	3.90%
2030		2.20%	3.90%
2031		2.20%	3.80%
2032		2.20%	3.80%
2033		2.20%	3.80%
2034		2.20%	3.80%
2035		2.20%	3.80%
2036		2.20%	3.80%
2037		2.20%	3.80%
2038		2.20%	3.80%
2039		2.20%	3.80%
2040		2.20%	3.80%

- 1 U.S. Bureau of Labor Statistics, "Consumer Price Index for All Urban Consumers, Series ID CUUR0000SA0," (https://data.bls.gov/timeseries/CUUR0000SA0)
 - Average value from the past year used
- 2 2025 = Column 1 / Column 1 from previous year 1 2026-2035 from CBO, "The Budget and Economic Outlook: 2025 to 2035," January 2025 (https://www.cbo.gov/system/files/2025-01/60870-Outlook-2025.pdf) 2036 to 2040 values equal the 2035 value
- 3 From CBO, *op. cit*. Projected 10-year Treasury notes interest rate used. Each year's interest rate is applied as the following year's discount rate

Attachment D.4 Budget Costs for Training and Development: Charleston County School District

1	2	3	4	5	6	7
Role	Training Plan Year	Number to Train	Training Hours per Person	Total Training Hours	Average Hourly Rate	Annual Cost
15-Year Plan for Staff Professional Development on Social Media Political	cies and Practices					
District Leadership Team	1	6	40	240	\$74.59	\$17,901
School Leadership Team	1	160	8	1,280	\$41.66	\$53,329
District and School Staff - All	1	7,411	4	29,646	\$42.18	\$1,250,598
District Leadership Team - Quarterly Check-In	2-15	6	8	48	\$74.59	\$3,580
School Leadership Team - Quarterly Check-In	2-15	160	8	1,280	\$41.66	\$53,329
School Leadership Team - New	2-15	16	8	128	\$41.66	\$5,333
District and School Staff - New	2-15	741	2	1,482	\$42.18	\$62,517
District and School Staff - All, Refresher Training	2-15	6,670	1	6,670	\$42.18	\$281,371
15-Year Professional Development Plan for Digital Literacy						
District Leaders	1	2	40	80	\$74.59	\$5,967
School Digital Literacy Specialists	1	102	12	1,224	\$40.36	\$49,406
School Digital Literacy Specialists - New	2-15	10	12	120	\$40.36	\$4,844
School Digital Literacy Specialists - Refresher Training	2-15	92	1	92	\$40.36	\$3,714
15-Year Professional Development Plan for Life Skills Programming						
District Leaders	1	2	40	80	\$74.59	\$5,967
School Life Skills Specialists	1	80	10	800	\$43.96	\$35,166
Teachers - Pilot	1	362	4	1,448	\$47.02	\$68,088
School Life Skills Specialists - New	2	8	10	80	\$43.96	\$3,517
Teachers - New and Untrained	2	3,653	4	14,612	\$47.02	\$687,092
Teachers - Pilot Refresher	2	326	1	326	\$47.02	\$15,329
School Life Skills Specialists - New	3-15	8	10	80	\$43.96	\$3,517
Teachers - New and Untrained	3-15	362	4	1,448	\$47.02	\$68,088
Teachers - Refresher	3-15	3,255	1	3,255	\$47.02	\$153,058
15-Year Professional Development Plan for Mental Health Literacy						
District Leaders	1	2	40	80	\$74.59	\$5,967
School Mental Health Literacy Specialists	1	102	12	1,224	\$40.36	\$49,406
School Mental Health Literacy Specialists - New	2-15	10	12	120	\$40.36	\$4,844
School Mental Health Literacy Specialists - Refresher Training	2-15	92	1	92	\$40.36	\$3,714
15-Year Professional Development Plan for Anti-Cyberbullying Progra	ımming					
District Leadership Team	1	6	8	48	\$74.59	\$3,580
School Leadership Team	1	160	8	1,280	\$41.66	\$53,329
School Leadership Team - New	2	16	8	128	\$41.66	\$5,333
School Leadership Team - Refresher	2	144	1	144	\$41.66	\$6,000
District and School Staff - All - Anti-Cyberbullying	2	7,411	2	14,823	\$42.18	\$625,299
District and School Staff - All - Restorative Practice	2	7,411	2	14,823	\$42.18	\$625,299
District and School Staff - 60% - Community Building	2	4,447	8	35,576	\$42.18	\$1,500,755
District and School Staff - 20% - Responsive & Harm	2	1,482	16	23,712	\$42.18	\$1,000,278
District and School Staff - 5% - Restorative Conferencing	2	371	16	5,936	\$42.18	\$250,407

Attachment D.4 Budget Costs for Training and Development: Charleston County School District

1	2	3	4	5	6	7
Role	Training Plan Year	Number to Train	Training Hours per Person	Total Training Hours	Average Hourly Rate	Annual Cost
Peer Coordinators and Peers	2	39	8	312	\$54.50	\$17,003
School Leadership Team - New	3-15	16	8	128	\$41.66	\$5,333
School Leadership Team - Refresher	3-15	144	1	144	\$41.66	\$6,000
District and School Staff - New - Anti-Cyberbullying	3-15	741	2	1,482	\$42.18	\$62,517
District and School Staff - New - Restorative Practice	3-15	741	2	1,482	\$42.18	\$62,517
District and School Staff - New - Community Building	3-15	445	8	3,560	\$42.18	\$150,177
District and School Staff - New - Responsive & Harm	3-15	148	16	2,368	\$42.18	\$99,893
District and School Staff - New - Restorative Conferencing	3-15	37	16	592	\$42.18	\$24,973
Peer Coordinators and Peers - New	3-15	4	8	32	\$54.50	\$1,744
15-Year Professional Development Plan for Family Engagement and	Education Workshops on	Social Media Use				
Director of Family Engagement and Education	1	1	40	40	\$74.59	\$2,983
School Family Engagement Specialist	1	80	10	800	\$49.76	\$39,811
School Counselors - Supporting Workshops	1	16	4	64	\$65.40	\$4,185
School Family Engagement Specialist - New	2	8	10	80	\$49.76	\$3,981
School Counselors - Supporting Workshops - Remainder	2	144	4	576	\$65.40	\$37,668
School Family Engagement Specialist - New	3-15	8	10	80	\$49.76	\$3,981
School Counselors - Supporting Workshops - New	3-15	16	4	64	\$65.40	\$4,185
School Family Engagement Specialist - Refresher	3-15	72	2	144	\$49.76	\$7,166
School Counselors - Supporting Workshops - Refresher	3-15	144	2	288	\$65.40	\$18,834
15-Year Professional Development Plan for Clinical Assessment and	Intervention Skills for Soc	rial Media-Related M	Iental Health Con	cerns		
Director of Student Mental Health	1	1	100	100	\$74.59	\$7,459
School Counselors	1	205	20	4,100	\$65.40	\$268,121
School-Based Mental Health Clinicians	1	102	20	2,040	\$53.69	\$109,525
School Psychologists	1	102	20	2,040	\$53.69	\$109,525
School-Based Therapists	1	68	20	1,360	\$53.69	\$73,017
Crisis Intervention Specialists	1	80	20	1,600	\$43.96	\$70,332
School Counselors - New	2-15	20	20	400	\$65.40	\$26,158
School-Based Mental Health Clinicians - New	2-15	10	20	200	\$53.69	\$10,738
School Psychologists - New	2-15	10	20	200	\$53.69	\$10,738
School-Based Therapists - New	2-15	7	20	140	\$53.69	\$7,516
Crisis Intervention Specialists - New	2-15	8	20	160	\$43.96	\$7,033
School Counselors- Refresher Training	2-15	184	4	736	\$65.40	\$48,131
School-Based Mental Health Clinicians - Refresher Training	2-15	92	4	368	\$53.69	\$19,757
School Psychologists - Refresher Training	2-15	92	4	368	\$53.69	\$19,757
School-Based Therapists - Refresher Training	2-15	61	4	244	\$53.69	\$13,100
Crisis Intervention Specialists - Refresher Training	2-15	72	4	288	\$43.96	\$12,660

1-4 Training and ongoing professional development requirements for the strategic plan

Number of Schools (23-24)	80
Number of Students (District-Wide) (23-24)	51,166
Number of District Employees (23-24)	6,324
Number of Teachers (23-24)	3,617
Number of New Hires	1,087
Number of Middle and High Schools	39

For new hires, see Attachment C.4 Column 7 of this Report

For position counts in Column 3, I round to the nearest whole number. In some cases the results are a 0 total for position count, or totals that are marginally different from strategic plan totals.

For all other figures, see Amended Plaintiff Fact Sheet, in this matter, May 10, 2025

See Expert Report of Dr. Sharon Hoover, in this matter, May 16, 2025; see also Expert Report of Dr. Sharon Hoover, in this matter, May 18, 2025

- 5 = Column 3 * Column 4
- 6 D.5 Column 4
- 7 = Column 5 * Column 6

Attachment D.5 Budget Compensation Rates for Training and Development: Charleston County School District

1	2	3	4
Role	Average Annual Compensation	Hours per Year	Average Hourly Rate
15-Year Plan for Social Media Policies and Staff Professional Development			
District Leadership Team			\$74.59
Director of Digital Literacy	\$155,142	2080	\$74.59
Director of Digital Safety	\$155,142	2080	\$74.59
Director of Life Skills Education	\$155,142	2080	\$74.59
Director of Mental Health Literacy	\$155,142	2080	\$74.59
Director of Student Mental Health	\$155,142	2080	\$74.59
Director of Family Engagement and Education	\$155,142	2080	\$74.59
School Leadership Team			\$41.66
Digital Literacy Specialist	\$83,958	2080	\$40.36
IT Staff or Educational Technology Specialist	\$89,362	2080	\$42.96
District and School Staff*			\$42.18
District Administrators	\$155,142	2080	\$74.59
Teachers	\$81,506	1733	\$47.02
Health Care Workers	\$91,799	1733	\$52.96
All Other	\$63,975	2080	\$30.76
15-Year Professional Development Plan for Digital Literacy			
District Leaders			\$74.59
Director of Digital Literacy	\$155,142	2080	\$74.59
Director of Digital Safety	\$155,142	2080	\$74.59
Digital Literacy Specialist	\$83,958	2080	\$40.36
15-Year Professional Development Plan for Life Skills Programming			
District Leaders			\$74.59
Director of Life Skills Education	\$155,142	2080	\$74.59
Director of Student Mental Health	\$155,142	2080	\$74.59
Life Skills Specialist	\$76,193	1733	\$43.96
Teachers	\$81,506	1733	\$47.02
15-Year Professional Development Plan for Mental Health Literacy			
District Leaders			\$74.59
Director of Mental Health Literacy	\$155,142	2080	\$74.59
Director of Student Mental Health	\$155,142	2080	\$74.59
Mental Health Literacy Specialist	\$83,958	2080	\$40.36
l 5-Year Professional Development Plan for Anti-Cyberbullying Programmin	g		
District Leadership Team			\$74.59
Director of Digital Literacy	\$155,142	2080	\$74.59
Director of Digital Safety	\$155,142	2080	\$74.59
Director of Life Skills Education	\$155,142	2080	\$74.59
Director of Mental Health Literacy	\$155,142	2080	\$74.59

Attachment D.5 Budget Compensation Rates for Training and Development: Charleston County School District

1	2	3	4
Role	Average Annual Compensation	Hours per Year	Average Hourly Rate
Director of Student Mental Health	\$155,142	2080	\$74.59
Director of Family Engagement and Education	\$155,142	2080	\$74.59
School Leadership Team			\$41.66
Digital Literacy Specialist	\$83,958	2080	\$40.36
IT Staff or Educational Technology Specialist	\$89,362	2080	\$42.96
District and School Staff*			\$42.18
District Administrators	\$155,142	2080	\$74.59
Teachers	\$81,506	1733	\$47.02
Health Care Workers	\$91,799	1733	\$52.96
All Other	\$63,975	2080	\$30.76
Peer Coordinator	\$113,352	2080	\$54.50
15-Year Professional Development Plan for Family Engagement and Educa	ation Workshops on S	Social Media Use	
Director of Family Engagement and Education	\$155,142	2080	\$74.59
Family Engagement Specialist	\$103,509	2080	\$49.76
School Counselor	\$113,352	1733	\$65.40
15-Year Professional Development Plan for Clinical Assessment and Interv	ention Skills for Soci	al Media-Related	Mental Health
Concerns			
Director of Student Mental Health	\$155,142	2080	\$74.59
School Counselor	\$113,352	1733	\$65.40
School-Based Mental Health Clinician	\$93,060	1733	\$53.69
School Psychologist	\$93,060	1733	\$53.69
School-Based Therapist	\$93,060	1733	\$53.69
Crisis Intervention Specialist	\$76,193	1733	\$43.96

- 1 See Expert Report of Dr. Sharon Hoover, in this matter, May 16, 2025; see also Expert Report of Dr. Sharon Hoover, in this matter, May 18, 2025
- 2 See Attachment C.4 Column 6 and Attachment E.2 Column 4 of this Report
- 3 Administrators and Other Staff: 40 hours per week, 52 weeks

Teachers and Support Staff: 40 hours per week, 43.3 weeks

4 = Column 2 / Column 3

Category rates are calculated as an average of positions

^{*}I adjust hourly rates for trainings that include all staff using ratios derived in Attachment E.2 Column 6

ATTACHMENT E

Attachment E.1 BLS Annual Compensation for Existing Position Types: Charleston County School District

1	2	3	4	5	6
Job	Average Annual Salary	Estimated Fringe Cost	Average Annual Compensation	Position Count	Percent of Total Staff
Existing Position Types					
District Administrators	\$103,500	\$16,281	\$119,781	190	3%
Teachers	\$60,583	\$9,530	\$70,112	3,617	57%
Health Care Workers	\$58,766	\$9,244	\$68,010	230	4%
All Other	\$43,130	\$6,784	\$49,914	2,287	36%

Notes and sources

- 1 Existing district and school staff position types
- 2 Representative average annual salary for Charleston-North Charleston, SC metropolitan statistical area U.S. Bureau of Labor Statistics, (OEWS) Tables," May 2024, Metropolitan and nonmetropolitan area (https://www.bls.gov/oes/tables.htm)
- Fringe benefits as a percent of annual salary: 15.73%

 Calculated as Insurance / Wages and Salaries using the national average employer cost for Primary, Secondary, and Special Education School Teachers, or 7.63 / 48.50

 I conservatively exclude all other benefit categories
 - U.S. Bureau of Labor Statistics, "Employer Costs for Employee Compensation December 2024," March 14, 2025, p. 5 (https://www.bls.gov/news.release/pdf/ecec.pdf)
- 4 = Column 2 + Column 3
- 5 Position Counts were obtained from the following sources:

Total Number of Employees, Teachers, and Health Care Workers (on-campus and off-campus) see Amended Plaintiff Fact Sheet, in this matter, May 10, 2025 District Administrators are equivalent to 3% of total employees, the average distribution for Plaintiff School Districts in this case

All Other Employees = Total Employees - Administrators - Teachers - Health Care Workers

Total Number of Employees (23-24):

6,324

6 = Column 5 / Total Number of Employees (23-24)

Attachment E.2 Budget Annual Compensation for Existing Position Types: Charleston County School District

1	2	3	4	5	6
Job	Average Annual Salary	Estimated Fringe Cost	Average Annual Compensation	Position Count	Percent of Total Staff
Existing Position Types					
District Administrators	\$114,920	\$40,222	\$155,142	190	3%
Teachers	\$60,374	\$21,131	\$81,506	3,617	57%
Health Care Workers	\$67,999	\$23,800	\$91,799	230	4%
All Other	\$47,389	\$16,586	\$63,975	2,287	36%

- 1 Existing district and school staff position types
- 2 Representative average annual salary for Charleston County School District 2023-2024 School Year
 - The average salary for newly hired Directors is used as a proxy for District Administrators (see Attachment C.4 of this Report)
 - The average salary for Teachers and Lead Teachers is used as a proxy for Teachers (See MR CCSD 779237, tab "2023 Pays")
 - The average salary for newly hired School Psychologists, School Counselors, School-Based Therapists, Crisis Intervention Specialists, Digital Literacy Specialists, Life Skills Specialists, School-Based Mental Health Clinician, Peer Coordinator and Mental Health Literacy Specialists is used as a proxy for Health Care Workers (see Attachment C.4 of this Report)
 - The average salary for Bus Drivers, Admin Support and Maintenance is used as a proxy for All Other (See MR CCSD 779237, tab "2023 Pays")
- 3 Fringe benefits as a percent of annual salary: 35.00%

This rate provided to me by counsel for the district

- 4 = Column 2 + Column 3
- Position Counts were obtained from the following sources:

Total Number of Employees, Teachers, and Health Care Workers (on-campus and off-campus) see Amended Plaintiff Fact Sheet, in this matter, May 10, 2025 District Administrators are equivalent to 3% of total employees, the average distribution for Plaintiff School Districts in this case

All Other Employees = Total Employees - Administrators - Teachers - Health Care Workers

Total Number of Employees (23-24):

6,324 = Column 5 / Total Number of Employees (23-24)